

# **EXHIBIT 49**

**Brad Cline**  
**10/1/2024**

<p>1 UNITED STATES DISTRICT COURT  2 SOUTHERN DISTRICT OF NEW YORK  3  4 SECURITIES AND EXCHANGE )  5 COMMISSION, )  6 Plaintiff, )  7 ) Case No.  8 vs. ) 23-cv-9518-PAE  9 )  10 SOLARWINDS CORP. and )  11 TIMOTHY G. BROWN, )  12 )  13 Defendants. )  14 _____ )  15  16  17  18  19  20  21  22  23  24  25</p> <p>VIDEOTAPED DEPOSITION OF  BRAD CLINE  Austin, Texas  Tuesday, October 1, 2024</p> <p>Reported by:  Micheal A. Johnson, RDR, CRR  Job No. 241001MJ</p> <p>1</p>	<p>1 APPEARANCES:  2 ON BEHALF OF PLAINTIFF:  3 U.S. SECURITIES AND EXCHANGE COMMISSION  4 BY: Kristen M. Warden  5 John J. Todor  6 Christopher J. Carney  7 100 F Street, NE  8 Washington, D.C. 20549  9 (202) 256-7941  10 wardenk@sec.gov  11 todorj@sec.gov  12 carneyc@sec.gov  13  14 ON BEHALF OF DEFENDANTS  15 SOLAR WINDS CORP. AND TIMOTHY G. BROWN:  16  17 LATHAM &amp; WATKINS LLP  18 BY: Serrin Turner  19 Joshua A. Katz  20 1271 Avenue of the Americas  21 New York, New York 10020  22 (212) 906-1330  23 serrin.turner@lw.com  24 josh.katz@lw.com  25  ALSO PRESENT:  Becky Melton  Jason Bliss  Annie Gravelle (Via Zoom)    VIDEOGRAPHER:  Timothy Desadier</p> <p>3</p>
<p>1 UNITED STATES DISTRICT COURT  2 SOUTHERN DISTRICT OF NEW YORK  3  4 SECURITIES AND EXCHANGE )  5 COMMISSION, )  6 Plaintiff, )  7 ) Case No.  8 vs. ) 23-cv-9518-PAE  9 )  10 SOLARWINDS CORP. and )  11 TIMOTHY G. BROWN, )  12 )  13 Defendants. )  14 _____ )  15  16  17  18  19  20  21  22  23  24  25</p> <p>Videotaped deposition of BRAD CLINE, taken  on behalf of Plaintiff, at Latham &amp; Watkins, LLP,  300 Colorado Street, Suite 2400, Austin, Texas,  beginning at 9:07 a.m. and ending at 5:05 p.m. on  October 1, 2024, before Micheal A. Johnson, a  Registered Diplomate Reporter, Certified Realtime  Reporter, and Notary Public of the State of Texas.</p> <p>2</p>	<p>1 INDEX  2 BRAD CLINE  3 October 1, 2024  4  5 APPEARANCES 3  6  7 PROCEEDINGS 7  8  9 EXAMINATION OF BRAD CLINE:  10  11 BY MS. WARDEN 8  12  13  14  15  16  17  18  19  20 REPORTER'S CERTIFICATION 233  21  22  23  24  25</p> <p>4</p>

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<p>1 end user services team. See if there's any else in  2 the initial -- in my return. I believe those are  3 the main teams that I had under me in -- as of  4 October, when I rejoined the company.  5 <b>Q.</b> October of 2020?  6 <b>A.</b> Yes, correct.  7 <b>Q.</b> Okay. And let's just break that up. So  8 the -- what did the networking team that you managed  9 do?  10 <b>A.</b> Networking team managed all -- manages  11 and managed all of our internal networking to the  12 corporate side of IT, including connectivity to the  13 Internet, and if there was any SaaS or cloud-based  14 networking within AWS or Azure, they would also  15 manage that networking.  16 <b>Q.</b> Okay. And what did the systems team do?  17 <b>A.</b> The systems team managed what we would  18 call our primary server systems for corporate IT.  19 So in the scope for corporate IT that would be  20 on-premise, any of our servers that were on-prem,  21 Active Directory. They would also manage oversight  22 of our AWS and any other cloud such as Google or  23 Azure for corporate IT.  24 <b>Q.</b> Okay. And then you also managed the UC  25 team. What was that?</p> <p style="text-align: center;">13</p>	<p>1 BizApps?  2 <b>A.</b> Yes, that's correct.  3 <b>Q.</b> So who's the current senior director of  4 IT?  5 <b>A.</b> Brody Taylor.  6 <b>Q.</b> And what were you hired to do as the head  7 of BizApps?  8 <b>A.</b> The role for business applications is  9 very focused on what it sounds like, they're our  10 business applications. So it's primarily if you  11 think of Salesforce, NetSuite, our HR and marketing  12 application. So it's very much focused on the  13 application side that the business runs off of.  14 <b>Q.</b> And just focusing on your time as senior  15 director of IT, October 2020 to March 2024, what was  16 your role at the company in connection with  17 cybersecurity?  18 <b>A.</b> In general, my team would handle the  19 implementation of policies. So if you had a policy  20 around onboarding or offboarding, that may have been  21 approved and handled by the compliance team and  22 InfoSec team, then we would do the general  23 enforcement or the daily processes around that  24 procedure, was generally how we handled that.  25 But there's many -- there are many facets</p> <p style="text-align: center;">15</p>
<p>1 <b>A.</b> UC is unified communications. So it's  2 audio/visual and then also anything phone systems.  3 <b>Q.</b> And you also managed the end user  4 services team.  5 What did that team do?  6 <b>A.</b> End user services is basically your  7 standard user for -- so employee, internal employee  8 or -- we would call our customers, but our internal  9 employees, and it would be handling any of their  10 support needs. So new laptop, provisioning,  11 onboarding, offboarding, you know, mouse breaks,  12 those kinds of things.  13 <b>Q.</b> And about how many people do you  14 currently manage as senior director of IT?  15 <b>A.</b> In the current role, which I now handle  16 the business application group, which is a different  17 team, it's roughly 97 folks last time I checked. In  18 my prior role over IT operations it was a little  19 over 100, about 105, 110 with contractors.  20 <b>Q.</b> So do you no longer manage the networking  21 systems, UC and end service -- end user services  22 teams?  23 <b>A.</b> I do not as of March of this year.  24 <b>Q.</b> Okay. So let's talk about head of -- in  25 March 2024 you transitioned to be the head of</p> <p style="text-align: center;">14</p>	<p>1 to that. Networking team had firewalls. Firewalls  2 obviously have a large security component to them.  3 All your servers and applications, patching, all of  4 those have security implications.  5 <b>Q.</b> And you mentioned implementation of  6 policies. Did you draft any of the policies?  7 <b>A.</b> I've been part of drafting some basic  8 policies, can't remember specifically, but generally  9 those -- all those policies are created either at  10 the InfoSec or compliance team or legal teams. So  11 not a general part of my role. I would consult or  12 provide information as of feasibility or  13 implementation options was generally how my role  14 would play.  15 <b>Q.</b> Okay. And then as senior director of IT,  16 who did you report to?  17 <b>A.</b> Initially I reported to Rani Johnson and  18 then --  19 <b>Q.</b> And what was her position?  20 <b>A.</b> She was CIO. And then as she  21 transferred -- or left the company, I reported to  22 Chris Day, also a CIO.  23 <b>Q.</b> Okay. And as head of BizApps, you report  24 to Mr. Day?  25 <b>A.</b> Yes, that's correct.</p> <p style="text-align: center;">16</p>

<p>1 Q. And then let's -- if you go down to -- 2 looks like you left SolarWinds in November 2019, 3 right? 4 A. Yes, that's correct. 5 Q. Okay. And you joined EZCORP? 6 A. EZCORP, correct, yes. 7 Q. And what was EZCORP? 8 A. It is a financial banking company in that 9 sector. 10 Q. And what was your role as VP of 11 infrastructure? 12 A. At that business I had both what would be 13 considered the business applications and the 14 infrastructure teams, managing all of their 15 infrastructure and external customer-facing systems. 16 Q. Okay. And then focusing in on the bottom 17 of your LinkedIn profile, prior to leaving for 18 EZCORP it says that you worked at SolarWinds between 19 May -- October 2016 and November 2019; is that 20 right? 21 A. Yes, that sounds correct. 22 Q. Okay. So let's split it up. Two 23 different positions, right? 24 A. Yes, I had two different positions. 25 Different teams during that time as well.</p> <p>17</p>	<p>1 A. I had handled -- or I took on the systems 2 team at that time initially, and I reported to Dave 3 Mills, was my initial reporting. 4 Q. And what was Mr. Mills' position? 5 A. He was VP of information technology at 6 that time. 7 Q. Okay. At some point did you report to 8 the CIO Rani Johnson? 9 A. I did, and there was a period there that 10 I also -- I had reported to Bill Carroll, who was 11 senior director of IT. 12 Q. And as director of information technology 13 at the company, what was your role in connection 14 with cybersecurity? 15 A. Similar to previously stated. So I would 16 have had management of the end-user devices, 17 management of -- for corporate IT, the management of 18 our networking switches, firewalls, servers. And so 19 all of those, of course, have a security component 20 and we would follow the InfoSec and security and 21 compliance guidelines for implementation. 22 Q. Did you interact with any SolarWinds 23 executives focusing in on your time as director of 24 IT, May 2017 to November 2019? 25 A. Executives. Yes. I mean, there was</p> <p>19</p>
<p>1 Q. Okay. So you joined SolarWinds in 2 October 2016 as a senior manager, right? 3 A. Correct. 4 Q. And was it a senior manager in the IT 5 group? 6 A. That is correct, yeah. States there I 7 was the manager of the network engineering team. 8 Q. Okay. And what did you do as the manager 9 of the network engineering team? 10 A. The network team as mentioned handled all 11 of our internal corporate network systems. That 12 would be your switching and routing, firewalls for 13 the company. 14 Q. Okay. And who did you report to as 15 senior manager IT? 16 A. Originally it was Jason Matthews. 17 Q. Okay. And then in May 2017 you 18 transitioned to be director of information 19 technology at SolarWinds; is that correct? 20 A. Correct. 21 Q. Okay. And you held that position until 22 November 2019? 23 A. Correct. 24 Q. Okay. How did your duties change as 25 director of information technology at SolarWinds?</p> <p>18</p>	<p>1 always either support capacity or there may have 2 been a project that we were working on or a 3 presentation. So there's always chances for 4 interactions. 5 Q. And which ones? 6 A. It would probably pretty much be anybody 7 at any point in time. We were a support 8 organization. So if somebody from sales needed 9 assistance, you know, an executive in sales, we 10 would go and support them. Marketing. If one of 11 the other leaders had a question around technical, 12 we also supported the company, we had some 13 initiatives around -- we as IT were very much 14 exemplary of our customers, because SolarWinds sells 15 software to customers very much similar sized IT as 16 our organization. And so we provide feedback on 17 products that we thought were of interest. We 18 provide feedback on needs that we had as a team that 19 we could see customers also needing. 20 So those were all different interactions 21 that we would have with executive teams. So maybe a 22 presentation on a feature or function within the 23 product that would be beneficial to us. So we would 24 show that and at times it would either be -- we 25 would be called into a group to give that</p> <p>20</p>

<p>1 Q. And how would you be aware that this was 2 happening?</p> <p>3 A. It would not be normally something in my 4 line of sight as a director.</p> <p>5 Q. But -- so how were you apprised of it?</p> <p>6 A. How was I apprised of it? That they were 7 testing? That was -- that was our normal processes. 8 If I go back to the point that I was a network 9 manager, I would have helped implement those 10 processes and then as a director it would not have 11 been a normal part of my job and duties. It would 12 have been my manager's job and duties. So if there 13 was a failure, that failure didn't deploy correctly, 14 oftentimes the manager of that team would let me 15 know, Hey, we're doing a big firewall upgrade, the 16 firewall upgrade did not go as planned, we had to 17 revert back, roll back to the prior version. We're 18 going to attempt it with a different change, a 19 different configuration. We're go to ask for 20 another change window on such-and-such date, I give 21 approval for that next change window and then go 22 forward.</p> <p>23 That would be about as much as I would be 24 involved in that.</p> <p>25 Q. Mr. Cline, did you request that senior</p> <p style="text-align: center;">65</p>	<p>1 product, yes.</p> <p>2 BY MS. WARDEN:</p> <p>3 Q. Okay. And what does that mean?</p> <p>4 A. From the technical perspective, one of my 5 teams would have been responsible for installing it, 6 tying it into our systems and working on the 7 workflows that would have assisted with the 8 automation of some of the onboarding tasks.</p> <p>9 Q. But did you have any role in recommending 10 the 8MAN ARM product to senior management at 11 SolarWinds?</p> <p>12 A. I can't recall directly. I know there 13 were times that I was asked to review a product that 14 we may have been looking at from an acquisition 15 standpoint, if it was relevant to our team, if we 16 thought it was a piece of software that had 17 potential and how we would use it and we would give 18 examples, but I can't remember -- recall 19 specifically if we pretested ARM. I believe that 20 time frame was around 2018, so roughly six years 21 ago. I can't remember.</p> <p>22 We did do presentations on them, so there 23 may be an artifact showing our feedback on that 24 product. And there were different members of my 25 teams, so I wasn't always necessarily included in</p> <p style="text-align: center;">67</p>
<p>1 management move to automated access rights 2 management product?</p> <p>3 MR. TURNER: Objection to form.</p> <p>4 A. I'm sorry, I didn't catch -- catch it 5 fully.</p> <p>6 BY MS. WARDEN:</p> <p>7 Q. Sure. Did you request that senior 8 management move to automated access rights 9 management product?</p> <p>10 MR. TURNER: Objection to form.</p> <p>11 A. I can't remember specifically if we had 12 reviewed that product preacquisition, so I can't -- 13 I can't say specifically. We may have identified an 14 area that we were looking to automate and they may 15 have gone and found that product, but I -- that 16 would be too far out of my scope.</p> <p>17 BY MS. WARDEN:</p> <p>18 Q. Sorry, when we're referring to the 19 product, you mean the 8MAN, what is it, ARM?</p> <p>20 A. It was the 8MAN ARM product, Access 21 Rights Manager.</p> <p>22 Q. So you're not aware of the process and 23 how it was implemented at SolarWinds?</p> <p>24 MR. TURNER: Objection to form.</p> <p>25 A. I was part of the implementation of the</p> <p style="text-align: center;">66</p>	<p>1 all the products that we reviewed for the company.</p> <p>2 Q. Okay. Before -- as your role as director 3 of IT, would you have typically been part of 4 reviewing a product with respect to access rights 5 management?</p> <p>6 MR. TURNER: Object to form.</p> <p>7 A. I would say that's very contextual as 8 well. As mentioned, I can't remember precisely if I 9 reviewed ARM before we acquired it and I wasn't 10 always involved in every potential acquisition. 11 Some might have some intersection with my areas of 12 expertise and at times I would be consulted. Other 13 times I was not. Just wasn't part of my role 14 specifically.</p> <p>15 BY MS. WARDEN:</p> <p>16 Q. Do you recall having any conversations 17 with Rani Johnson regarding implementing ARM at 18 SolarWinds?</p> <p>19 A. I believe we would have talked about it. 20 I can't remember specifically. We had -- I was 21 generally almost daily in her office at some point 22 or another for one meeting or another, so I can't 23 recall specifically if we talked about ARM. I know 24 we did talk about me traveling there for the 25 acquisition. So I actually visited Berlin when we</p> <p style="text-align: center;">68</p>

<p>1 did the acquisition just to help greet the team, get 2 them set up for a WebEx so that KBT could talk to 3 them, but I can't remember what details we would 4 have talked about the product itself or the 5 implementation of the product. 6 <b>Q.</b> Do you recall any conversations with Rani 7 Johnson regarding concerns about the manual process 8 for access rights management? 9 <b>A.</b> No, I don't remember any specific context 10 around concerns. We were always looking for ways to 11 automate anything that was a manual task within IT 12 that allows you to do -- be more efficient and 13 effective. So we may have had a conversation around 14 automation of change management -- or facets of 15 change management because you can't automate all of 16 it. 17 In particular, SARF was one of the things 18 that we had looked at as an area that we could do 19 more automation in. But I can't recall specific 20 conversations with her. 21 <b>Q.</b> Did you tell senior management that 22 manual process for access rights management was 23 inefficient? 24 <b>A.</b> I don't recall having a conversation of 25 that nature.</p> <p style="text-align: center;">69</p>	<p>1 employee perspective, yes. As far as anytime you 2 automate something, it should take less people to do 3 that, so that's more efficient, yes. 4 BY MS. WARDEN: 5 <b>Q.</b> Okay. Sir, can you take a look -- 6 directing your attention to the Auditing and Logging 7 paragraph of Exhibit 3 [sic]. 8 Do you see that? 9 <b>A.</b> Yes. 10 <b>Q.</b> Can you read that paragraph to yourself. 11 (Witness reviews document.) 12 <b>A.</b> Yes. I read it. 13 BY MS. WARDEN: 14 <b>Q.</b> Okay. So, Mr. Cline, is that paragraph 15 about auditing and logging true? 16 <b>A.</b> As far as the areas that I had 17 responsibility and my visibility, yes, I would say 18 it is. 19 <b>Q.</b> And did you play any role in the auditing 20 and logging that is described in this paragraph? 21 <b>A.</b> The areas under my teams, the areas that 22 they would have had roles, referring back to the 23 change management process, if we brought a new 24 server or application online, that was something 25 that we were to inform the InfoSec team on so that</p> <p style="text-align: center;">71</p>
<p>1 <b>Q.</b> Would you consider it to be a best 2 practice in the IT industry to have automated 3 process for access rights management? 4 <b>MR. TURNER:</b> Object to form. 5 <b>A.</b> Sorry, can you restate? 6 BY MS. WARDEN: 7 <b>Q.</b> Sure. Would you consider it to be a best 8 practice in the IT industry to have automated 9 processes for access rights management? 10 <b>MR. TURNER:</b> Object to form. 11 <b>A.</b> In my opinion, it's -- and it's very 12 dependent on the software. A lot of tools have 13 changed over the time period that we're speaking of. 14 So it would be very dependent on the business, but 15 it is an area that when you automate, it can make 16 things more efficient. So I would say it's more of 17 an efficiency concern is where I would look at 18 automation. Automation can also have risks, so it's 19 a double-edged sword. 20 BY MS. WARDEN: 21 <b>Q.</b> Okay. Would you consider automated 22 processes for access rights management to be a more 23 efficient vehicle? 24 <b>MR. TURNER:</b> Object to form. 25 <b>A.</b> I would say it's more efficient from a</p> <p style="text-align: center;">70</p>	<p>1 they could add it to the log event manager or the 2 SolarWinds event manager, I believe was the later 3 name that we used for it. And so they would add 4 those systems into those event managers to collect 5 those logs. So that would be the -- my primary 6 process that I was aware of. 7 <b>Q.</b> So are examples of the logs, the audit 8 logs referenced in the auditing and logging 9 paragraph, are they the -- the event manager or the 10 SolarWinds event manager? 11 <b>A.</b> I believe that would have been the 12 primary system that I was aware of. I know there 13 were other tools that the InfoSec team had under 14 their management, but the primary one that I was 15 familiar with was that, the LEM or SEM product. 16 <b>Q.</b> Oh, the LEM is referring to the log event 17 manager? 18 <b>A.</b> That is correct. 19 <b>Q.</b> I see. Okay. And who in your 20 team -- you mentioned people on your teams were in 21 charge of the LEM or the SEM. Who was that? 22 <b>A.</b> My team wasn't in charge of LEM or SEM. 23 That fell under InfoSec, but if my team was, let's 24 say, deploying a new server or potentially a new 25 application or firewall or switch, they would alert</p> <p style="text-align: center;">72</p>

**Brad Cline**  
**10/1/2024**

<p>1 Q. Okay. And what do you mean by "outputs"?</p> <p>2 A. Going into the administrative consoles of</p> <p>3 our Active Directory server, reviewing accounts,</p> <p>4 that type of view.</p> <p>5 Q. And do you recall providing this document</p> <p>6 to Mr. Mills?</p> <p>7 A. I believe I had sent it to him via e-mail</p> <p>8 to discuss in one of our one-to-ones or one of our</p> <p>9 meetings that I had with him.</p> <p>10 Q. Do you recall ever presenting this</p> <p>11 PowerPoint at a meeting?</p> <p>12 A. I remember -- I can't remember now</p> <p>13 because we're going on seven years. I remember a</p> <p>14 discussion around it and some projects that we</p> <p>15 kicked off from recommendations and from discussions</p> <p>16 with the team.</p> <p>17 Q. And when you're referring to "team," is</p> <p>18 it your IT team?</p> <p>19 A. I believe -- yes. That would have been</p> <p>20 my IT systems team that had administration over this</p> <p>21 area. So that would have been the team that I would</p> <p>22 be interfacing with.</p> <p>23 Q. Okay. Directing you to Bates page ending</p> <p>24 in 2013.</p> <p>25 A. Uh-huh.</p> <p>93</p>	<p>1 Active Directory are running. So the configuration</p> <p>2 and settings of that. So there's an added risk of a</p> <p>3 configuration change that may cause a production</p> <p>4 issue. There's also always the risk that if an</p> <p>5 administrator account was compromised, that that</p> <p>6 could be a risk point. So there's just multiple</p> <p>7 risks with anytime you're running within an</p> <p>8 administrative role. But it is normal -- normal</p> <p>9 process of business that you need administrative</p> <p>10 role to do many of the actions within the job. So</p> <p>11 that is one of those standard processes, but it's</p> <p>12 one of those processes that can be a risk.</p> <p>13 Q. Okay. So when you wrote: We have an</p> <p>14 unnecessary level of risk within our environment,</p> <p>15 the reference to risk meant usage of domain</p> <p>16 administration?</p> <p>17 A. Yes. I was referring to our</p> <p>18 administrators, which it mentions 15 accounts</p> <p>19 running as domain admin. So those would have been</p> <p>20 administrative accounts that our engineers use to</p> <p>21 work on the Active Directory domain and manage the</p> <p>22 domain itself.</p> <p>23 Q. Okay. And how did you learn that there</p> <p>24 were 15 accounts running on -- running as domain</p> <p>25 admin?</p> <p>95</p>
<p>1 Q. Do you see at the top it says Current</p> <p>2 Assessment?</p> <p>3 A. Yes.</p> <p>4 Q. All right. And you recall preparing this</p> <p>5 slide, right?</p> <p>6 A. Yes, that's correct.</p> <p>7 Q. Okay. So you see it says: We have an</p> <p>8 unnecessary level of risk within our environment.</p> <p>9 A. Uh-huh.</p> <p>10 Q. What does that mean?</p> <p>11 A. In my opinion, and again, I believe I was</p> <p>12 about a month into this role, as I was looking at</p> <p>13 our usage of domain administration from my end -- my</p> <p>14 team, which my team would have been the ones that</p> <p>15 had domain admin, I felt like we had an ability to</p> <p>16 reduce their use of domain administration role to</p> <p>17 reduce exposure to those accounts.</p> <p>18 Q. And what do you mean by "exposure to</p> <p>19 those accounts"?</p> <p>20 A. Anytime you're running as an</p> <p>21 administrative role, there's another level of risk,</p> <p>22 both from the risk of making an accidental change,</p> <p>23 because the domain role -- domain admin role has the</p> <p>24 ability to change a lot of -- well, really all the</p> <p>25 settings around the way those servers that run our</p> <p>94</p>	<p>1 A. When you view the administration console</p> <p>2 within Active Directory, you can see all users that</p> <p>3 are part of a particular group and that gives you an</p> <p>4 output of every individual that has an admin</p> <p>5 account.</p> <p>6 Q. Okay. And you recall doing that in</p> <p>7 June -- May or June 2017?</p> <p>8 A. Yes, I believe that's where I came up</p> <p>9 with these particular answers as far as 15 accounts</p> <p>10 running as domain admin.</p> <p>11 Q. And did you review the administration</p> <p>12 console within Active Directory as part of your</p> <p>13 process in preparing this slide deck for Mr. Mills?</p> <p>14 A. Well, I -- as mentioned, I prepared it</p> <p>15 for myself and then presented it to him. It was</p> <p>16 just something that I was putting together. But I</p> <p>17 believe that's where I got the 15 accounts from,</p> <p>18 would have been viewing that console.</p> <p>19 Q. Okay. And what was your reaction to</p> <p>20 learning that 15 accounts were running as domain</p> <p>21 admin in May or June 2017?</p> <p>22 A. It's a normal process. I had come from a</p> <p>23 smaller environment previously where I was one of</p> <p>24 potentially two admins, right. It was a smaller</p> <p>25 company. So, you know, that's what I was more used</p> <p>96</p>

<p>1 to. And at this company we had a larger company.  2 So at this company we had 15 accounts. It wasn't so  3 much the number, it was that there was some recent  4 changes within Active Directory that allowed you to  5 do modeling around a least-privilege basis, which  6 was newer technology, I believe in Server 2012 or  7 Server 2016. And those were -- gave you the ability  8 to implement more granular controls around domain  9 administration.  10 <b>Q.</b> Okay. And the second line says: Five  11 domain admin levels service accounts with passwords  12 unchanged as far back as 2007.  13 Do you see that?  14 <b>A.</b> I do, yes.  15 <b>Q.</b> Okay. Is that consistent with your  16 understanding of domain admin accounts at SolarWinds  17 in May or June 2017?  18 <b>MR. TURNER:</b> Object to form.  19 <b>A.</b> Consistent with my -- of those five  20 accounts?  21 <b>BY MS. WARDEN:</b>  22 <b>Q.</b> Yeah.  23 <b>A.</b> I believe if I put it down, I assume that  24 I would have pulled it off of that console and that  25 would have been accurate, yes.</p> <p style="text-align: center;">97</p>	<p>1 <b>A.</b> Active Directory.  2 <b>Q.</b> Yeah. That was based upon your  3 observations of the Active Directory in 2017?  4 <b>A.</b> Yes.  5 <b>Q.</b> Okay. And tell me, what does this --  6 what does this mean?  7 <b>A.</b> So the systems team in the course of  8 their job needs domain admin to do their job, but  9 the risk that's there is that if we had an exit of a  10 personnel in that role, you would obviously have a  11 risk that that person had higher-level privileges  12 than a normal user. So there's more chance for a  13 malicious-type event if you have a disgruntled  14 employee with a domain admin credential versus a  15 standard employee with an admin credential. So  16 anytime you have a higher level of access, it's a  17 higher level of risk.  18 <b>Q.</b> But what does high level of risk during  19 routine operations mean?  20 <b>A.</b> During routine operations would be what I  21 was speaking to earlier, which means if you have the  22 ability to make a change on anything, you have a  23 higher chance of making a mistake on anything. So  24 just with a higher level of access, you have a  25 higher level of you can change anything in the</p> <p style="text-align: center;">99</p>
<p>1 <b>Q.</b> Okay. And was this concerning to you?  2 <b>A.</b> It depends on how they're handled.  3 So -- and the need for that service account. So  4 service accounts are a very tricky topic  5 and -- within IT is there a necessary account,  6 particularly domain level. And five is a pretty  7 minimal grouping, but the fact that we had those  8 domain-level service accounts, it's something that I  9 wanted to keep an eye on, and so it's something that  10 I wanted to see as far as is there another way that  11 we can tackle those service accounts.  12 <b>Q.</b> You said Server 2012 or Server 2016.  13 Were those Microsoft products?  14 <b>A.</b> Those would have been -- when speaking  15 about Active Directory, yes, those would be  16 Microsoft products.  17 <b>Q.</b> And then the next sentence on Bates  18 ending in 2013 says: System team currently runs as  19 domain admin, high level of risk during routine  20 operations and particularly onboarding and  21 offboarding of personnel.  22 Do you see that?  23 <b>A.</b> I do, yes.  24 <b>Q.</b> And was that based upon you observing  25 the -- what did you call it, the directory?</p> <p style="text-align: center;">98</p>	<p>1 system. And if you can change anything in that  2 Active Directory system, you could potentially make  3 a mistake that would be impacting to our production.  4 <b>Q.</b> Do you recall any next steps being taken  5 to address the issues that you identified in Bates  6 ending in 2013?  7 <b>A.</b> Yes. Yeah, we kicked off multiple  8 projects. I can't remember at this point in time if  9 we had already started our dash -- what we called  10 our dash admin project. What that was was creating  11 separate accounts for anybody with a higher level of  12 privilege. And that may have already been in place  13 before I came in, so I can't remember the specifics  14 around those timelines. But we also kicked off  15 what's called a GMSA program. And so GMSAs are  16 managed service accounts that were one of the pieces  17 of technology that Microsoft deployed in their  18 server system of Active Directory. I can't remember  19 the initial server release, if it was 2012 or 2016,  20 but it was sometime around that time frame, that  21 allowed you to move away from passworded service  22 accounts.  23 That technology only works for certain  24 services, so you couldn't deploy it fully. It still  25 can't be deployed fully because it doesn't work for</p> <p style="text-align: center;">100</p>

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<p>1 all use cases, but we moved the applicable service 2 accounts that could be moved to a GMSA to a GMSA. 3 So essentially you would never see the password and 4 that password is autorotated by the server system. 5 So it is an improvement of the way that you handle 6 or can handle service accounts. 7 <b>Q.</b> So this presentation is dated June 2nd, 8 2017. When do you recall the dash admin project 9 being fully implemented? 10 <b>A.</b> I can't -- as mentioned, I can't remember 11 if they had already started that before I went in 12 there, because I remember we had separate accounts 13 for our network administrators. And so I don't 14 remember what level the dash admin was deployed at. 15 I know that it's still a process that we follow 16 within the business. I just don't remember when it 17 initially started. 18 <b>Q.</b> Do you recall when the GMSA program was 19 fully implemented? 20 <b>A.</b> As mentioned, it doesn't apply to all 21 systems. It can't be used in every scenario. So we 22 had done it to, I would say the fullest extent we 23 could, but I can't remember the duration of the 24 project. Because overall there were only five 25 domain admin level accounts, but there were multiple</p> <p>101</p>	<p>1 privilege, which would mean -- with Just-in-Time, 2 you only receive access to your administrative role 3 when you need it and then it goes away after you're 4 done. 5 With least privilege you would have only 6 rights to the lowest model needed for your role, 7 which depending on your role could be domain admin, 8 but there are other roles that may not require 9 domain admin that could be more granular within the 10 systems administrator team. 11 <b>Q.</b> When you say "in this context" you're 12 talking about "my administrators," what do you mean? 13 <b>A.</b> This would have been -- I had just taken 14 on the system administration team. As mentioned, I 15 was new to it. I just had a month with this team, 16 so I was still learning the team and how they 17 worked, but it would have been the system 18 administrators within that group. 19 <b>Q.</b> Okay. When you were reviewing the 20 information within Active Directory folders, did you 21 have information about who besides your 22 administrators were -- whether they were 23 implementing a least-privilege-based model? 24 <b>MR. TURNER:</b> Objection to the form. 25</p> <p>103</p>
<p>1 just general service accounts that would have had 2 rights to different areas in the business. 3 <b>Q.</b> Do you recall discussing Bates ending in 4 2013 with Mr. Brown? 5 <b>A.</b> No, I do not. I don't even -- I don't 6 know if he was with the business at the time or not. 7 I can't remember his start date, but I don't 8 remember discussing this with Mr. Brown. I 9 discussed it with, Dave Mills would have been my 10 normal point of contact. 11 <b>Q.</b> Take a look at the next page, Bates 12 ending in 2014. Do you see at the top the slide 13 says Path Forward? 14 <b>A.</b> Uh-huh. 15 <b>Q.</b> And then under it it says: Implement a 16 least-privileged based administrative model. 17 Do you see that? 18 <b>A.</b> Yes. 19 <b>Q.</b> What is your understanding of the term 20 "least-privileged based administrative model" as you 21 used it in this presentation? 22 <b>A.</b> In this context I was talking about my 23 administrators. There's a -- some newer 24 technologies that allowed for what you call 25 Just-in-Time privilege administration and also least</p> <p>102</p>	<p>1 <b>BY MS. WARDEN:</b> 2 <b>Q.</b> I'll rephrase it. So you mentioned that 3 you looked at documentation or information within 4 Active Directory, correct? 5 <b>A.</b> Yes. 6 <b>Q.</b> Okay. In order to form the basis of 7 Exhibit 5? 8 <b>A.</b> Uh-huh. 9 <b>Q.</b> Okay. Did you have 10 access -- least-privilege administrative information 11 based on people other than your administrators? 12 <b>MR. TURNER:</b> Object to form. 13 <b>A.</b> Yes. I would have been aware of other 14 accounts on the system and the model -- the general 15 model, both with onboarding and offboarding as some 16 of my team would have handled some of the onboarding 17 and offboarding tasks dependent upon the request. 18 And then also obviously within my team. 19 <b>BY MS. WARDEN:</b> 20 <b>Q.</b> Okay. So besides the system 21 administration team, did you learn any information 22 about whether or not least-privilege administrator 23 model was followed -- 24 <b>MR. TURNER:</b> Objection -- 25</p> <p>104</p>

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<p>1 BY MS. WARDEN:  2 <b>Q.</b> -- by others at SolarWinds?  3 MR. TURNER: Objection to form.  4 <b>A.</b> Yes. To my awareness, such as the  5 network team, the way that they worked, that was  6 something I was intimately familiar with. I would  7 have had them close to nine months or almost a year  8 I believe by this point in time. Our model was  9 fully a least-privilege-based model for the  10 administration of the network team.  11 More granularity was available in the  12 Cisco devices that we were administering. And so  13 that was in place for that team. So that was my  14 awareness there. And then also as a user, just as  15 my normal day-to-day job, before I was given  16 administrative access with the systems team, I only  17 had access to the basic applications that were  18 underneath my role. So I didn't have administrative  19 access until I took on the systems team and then I  20 was given administrative access.  21 MR. TURNER: As I mentioned before, I  22 need to have a call at noon. So if you could just  23 find a breaking point in the next few minutes, I'd  24 appreciate it.  25</p> <p>105</p>	<p>1 BY MS. WARDEN:  2 <b>Q.</b> Is it fair to say that system  3 administrators at SolarWinds did not have a  4 least-privilege-based administrative model as of  5 June 2nd, 2017?  6 MR. TURNER: Object to form.  7 <b>A.</b> So, again, their role required domain  8 admin. There were newer tech that was coming out  9 that could allow the ability for us to apply a more  10 granular privilege model to their role, but we  11 needed to review it. And again, I wrote this a  12 month into that job. So from my point of view, I  13 felt like there was areas that I could identify for  14 improvement and one of those was around that  15 administrative role for a select few system  16 administrators.  17 BY MS. WARDEN:  18 <b>Q.</b> Did you implement a least-privilege  19 administrative model after June 2nd, 2017?  20 MR. TURNER: Object to form.  21 <b>A.</b> We -- I'm trying to remember the exact  22 sequence of events for our system administrators.  23 For our system administrators, many of them still  24 need domain admin and oftentimes work with domain  25 admin. We did implement some technology that</p> <p>107</p>
<p>1 BY MS. WARDEN:  2 <b>Q.</b> So can you tell me why you wrote:  3 Implement a least-privilege-based administrative  4 model?  5 <b>A.</b> Yes. I was very focused -- as mentioned,  6 I had just taken on the network team. I had had  7 them for less than a month. I was familiarizing  8 myself with their environment, the way that they  9 worked. And I felt like there was an opportunity  10 for us to implement a different type of access for  11 my system administrators.  12 <b>Q.</b> And is it fair to say that SolarWinds did  13 not have a least-privilege-based administrative  14 model as of June 2nd, 2017?  15 MR. TURNER: Objection to form.  16 <b>A.</b> Well, it's context specific. So if I'm  17 talking about my system administrators, they  18 oftentimes needed full domain admin for the job that  19 they did. But I saw an opportunity with some of the  20 newer tech that was being deployed that we had the  21 ability to go into a different privilege model for  22 those users. But this is very specific to that  23 team, the systems administration team that had  24 domain administration for corporate TUL domain.  25</p> <p>106</p>	<p>1 allowed us to do Just-in-Time administration, which  2 meant that at the point in time that they needed  3 their administrative role, that role would be  4 provisioned and then it would be deprovisioned once  5 they were done doing the task. So it was less of a  6 least-privilege model for them because they needed  7 domain admin in their daily work and it was more of  8 a Just-in-Time deployment, which is a different  9 piece of technology. So we -- it was a little bit  10 different, there's a little more context to that.  11 MS. WARDEN: We can break,  12 Mr. Turner.  13 MR. TURNER: Appreciate it.  14 THE VIDEOGRAPHER: Going off the  15 record. Time is 11:58.  16 (Recess taken from 11:58 a.m. to  17 1:01 p.m.)  18 THE VIDEOGRAPHER: Back on the  19 record. Time is 1:01.  20 BY MS. WARDEN:  21 <b>Q.</b> Mr. Cline, before the break I had asked  22 you did you implement a least-privilege  23 administrative model after June 2nd, 2017. Remember  24 that?  25 <b>A.</b> Yes, I do.</p> <p>108</p>

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<p>1 Q. And you said, "We did implement some 2 technology that allowed us to do Just-in-Time 3 administration." 4 A. Yes. 5 Q. Okay. Is Just-in-Time administration a 6 least-privilege-based administrative model? 7 MR. TURNER: Objection to form. 8 A. It is a different type of model. As the 9 name implies, it's a Just-in-Time access model. So 10 it applies access level for administrators, and this 11 is very specific to the context of the IT systems 12 administration team, which their role is systems 13 administration. So we were looking at the 14 Just-in-Time model for their role. 15 BY MS. WARDEN: 16 Q. So my question is, after June 2nd, 2017, 17 are you aware of a least-privilege-based 18 administrative model being implemented at 19 SolarWinds? 20 MR. TURNER: Object to form. 21 A. Again, I have to preface, it's the 22 context of -- it's very context specific, but if 23 we're talking about the system administration team, 24 which was -- there were a few different folks on 25 that team, they would have had a least-privilege</p> <p>109</p>	<p>1 BY MS. WARDEN: 2 Q. What process did you follow to implement 3 a least-privilege-based administrative model after 4 June 2nd, 2017? 5 A. There's multiple -- again, multiple ways 6 of implementing a model. Much of that was in place 7 even for the system administrator role that we're 8 talking about specifically in this document that I 9 wrote. Ways that we made improvements were around 10 what we called our dash admin program which is where 11 we provide a secondary set of credentials for 12 anybody that has an administrative role. So that 13 means in their daily work they don't have admin 14 credentials and they only have admin credentials 15 when they need to go and access something that 16 requires administrative privilege. So that's one 17 key way of changing that model. 18 But it's very much a part of the job of a 19 system administrator to have domain admin, but 20 there's ways to make other improvements around that 21 administrative role. And so that's a lot of what 22 we're -- I was referring to in this document. 23 Q. So in Bates ending in 24 -- 2014, you 24 said: No user or service account would use domain. 25 This is under Path Forward: No user or</p> <p>111</p>
<p>1 model around their access levels. 2 In particular we utilize Just-in-Time as 3 one of those ways to achieve a model. It's a 4 different type of model than what you would call a 5 least-privileged. 6 BY MS. WARDEN: 7 Q. So my question is in the sense that you 8 wrote: Implement a least-privilege-based 9 administrative model, in the sense that you meant it 10 in your words in Bates ending in 2014, your -- is 11 your testimony that a least-privilege-based 12 administrative model was implemented for the system 13 administrators after June 2nd, 2017? 14 MR. TURNER: Object to form. 15 A. Yes. And you could argue that it was in 16 place before as well. What I'm referencing here is 17 very specific to the system administrator role and 18 the ability to improve on the model that we had in 19 place for them. In particular, one of those ways 20 was around a Just-in-Time model, but also there's 21 ways to -- with newer technology that is always 22 changing, there's ways to implement that model 23 differently. So it's a very complex topic. Not 24 trying to avoid the question. Sorry. There's just 25 a lot of pieces to that technology.</p> <p>110</p>	<p>1 service account would use domain admin. Any log-in 2 attempt would trigger an alert, right? 3 A. Uh-huh. 4 Q. Was that your recommendation? 5 A. It was. As mentioned a month into this 6 position as I was reviewing the team. 7 Q. So what do you mean by when you testified 8 it's part of the job of a system administrator to 9 have domain admin? 10 A. Again, it's -- there's a lot of 11 complexity to the Active Directory environment. So 12 certain tasks just require domain admin. It doesn't 13 matter what you're doing -- or it doesn't 14 matter -- if you're trying to make certain changes 15 to an Active Directory domain, it requires domain 16 admin, just period. 17 There's other roles that you can use, 18 some of the newer what were called, well, roles 19 within Active Directory that could do some of the 20 administrative privileges -- or administrative 21 functions without what would be considered a full 22 domain admin. And a lot of that granularity came 23 with the technology over time. 24 And so same thing, it was implementation 25 over time that we were -- that I was referring to as</p> <p>112</p>

<p>1 let's look at an implementation using those newer 2 roles and groups to build a more granular 3 administrative function.</p> <p>4 <b>Q.</b> Is it fair to say that as of June 2017 if 5 a user logged into a domain admin, that that did not 6 trigger an alert?</p> <p>7 <b>MR. TURNER:</b> Object to form.</p> <p>8 <b>A.</b> From my awareness, it would have been 9 logged. I don't know that a user would have 10 triggered an alert because that would have been a 11 normal operational role for an admin, for a systems 12 admin. So they would be doing that multiple times a 13 day. So I don't believe we would have triggered 14 normally an alert.</p> <p>15 If an account was elevated to domain 16 admin that was not previously a domain admin, that 17 did trigger alert at that point in time.</p> <p>18 <b>BY MS. WARDEN:</b></p> <p>19 <b>Q.</b> So -- but why did you recommend going 20 forward, the path forward, to be any log-in attempt 21 to a domain admin would trigger an alert?</p> <p>22 <b>MR. TURNER:</b> Object to form.</p> <p>23 Go ahead.</p> <p>24 <b>A.</b> This would reference more of the JIT 25 model. That would mean just as a normal daily,</p> <p style="text-align: center;">113</p>	<p>1 Implement, manage, service accounts and remove any 2 elevated service accounts.</p> <p>3 Do you see that?</p> <p>4 <b>A.</b> I do, yeah.</p> <p>5 <b>Q.</b> Why did you say: Remove any elevated 6 service accounts?</p> <p>7 <b>A.</b> This was referring to -- I'd previously 8 referred to managed service accounts, or they later 9 became called GMSAs. They changed over time the 10 technology from Microsoft and the way that you would 11 implement it. But with MSAs -- with MSAs, managed 12 service accounts, or GMSAs, you can deliver those in 13 certain scenarios without elevated privileges.</p> <p>14 As previously mentioned, 15 there's -- doesn't cover all use cases. And 16 there's generally still needs for elevated service 17 accounts. So once again, I was a month into this 18 position, so I was still reviewing the team, let 19 alone the larger business. So this was just my 20 initial assessment as I had first stepped into that 21 team.</p> <p>22 <b>Q.</b> So the words say: Remove any elevated 23 service accounts.</p> <p>24 <b>A.</b> Uh-huh.</p> <p>25 <b>Q.</b> Are you saying that that -- that was</p> <p style="text-align: center;">115</p>
<p>1 until they actually needed that role, they would not 2 have domain admin. Whenever they did use domain 3 admin, in that case it would trigger an alert 4 because they wouldn't normally be a domain admin.</p> <p>5 So referring back to when your account 6 gets elevated, it triggers an alert, this would work 7 in that same manner. So only when they were 8 elevated to domain admin, then it would trigger an 9 alert. So that's the Just-in-Time-type model. It's 10 a different model around providing access.</p> <p>11 <b>BY MS. WARDEN:</b></p> <p>12 <b>Q.</b> When was the Just-in-Time model fully 13 implemented?</p> <p>14 <b>A.</b> I can't say fully. And speaking just to 15 the systems team, I know we kicked off a dash admin 16 program, but I don't -- I would have to see one of 17 the forms or project tracking that we did on it. 18 That was a series of programs around building the 19 technology, changing the roles and then implementing 20 that model for the team. So I can't say 21 specifically. I believe we had tackled that project 22 shortly after discussing this, but I'd need to see 23 some documentation on it.</p> <p>24 <b>Q.</b> Okay. The last sentence of the Bates 25 ending in 2014, it says, under Path Forward:</p> <p style="text-align: center;">114</p>	<p>1 incorrect on your part?</p> <p>2 <b>MR. TURNER:</b> Object to form.</p> <p>3 <b>A.</b> I would say after full assessment, 4 realized that that was not a fully viable path.</p> <p>5 <b>BY MS. WARDEN:</b></p> <p>6 <b>Q.</b> Today or you realized that sometime after 7 June 2017?</p> <p>8 <b>A.</b> No. In course of actually working on the 9 projects. Like this is an initial recommendation 10 off of a brief review. So after that I hand it to 11 my engineers and actually dig into the technicals, 12 and then they would come back with their 13 recommendations and viability. So this is just an 14 initial -- my initial concept.</p> <p>15 <b>Q.</b> Were alerts ever put in place when 16 someone tried to log into a domain admin account?</p> <p>17 <b>MR. TURNER:</b> Object to form, and 18 asked and answered.</p> <p>19 <b>A.</b> From -- yes. From my understanding of 20 it, we alerted off of elevation of an account. I do 21 not -- I cannot recall precisely because I don't 22 handle all of the technical details at that level if 23 there is an alert on every time a domain account's 24 used. That would be under the monitoring of the 25 InfoSec team.</p> <p style="text-align: center;">116</p>

1 BY MS. WARDEN:  
2 **Q.** Were you involved in the implementation  
3 of alerts going forward after June 2nd, 2017, on  
4 domain admin accounts?  
5 MR. TURNER: Object to form.  
6 **A.** No, that would generally be, as  
7 mentioned, handled by the InfoSec team. And so I  
8 might make a recommendation or a request, but  
9 generally that would be a decision by the InfoSec  
10 team on what they would alert on.  
11 BY MS. WARDEN:  
12 **Q.** Did you review individual users'  
13 privilege levels as part of this process?  
14 MR. TURNER: Object to form.  
15 **A.** Are we speaking specifically to  
16 this -- as in this?  
17 BY MS. WARDEN:  
18 **Q.** As part of -- in preparing Exhibit 5, did  
19 you -- do you recall reviewing individual users'  
20 privilege levels?  
21 **A.** No, I do not. And as mentioned, this was  
22 in 2017. I don't recall my process for putting this  
23 together.  
24 **Q.** Well, you did recall reviewing  
25 information in Active Directory?

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1 **A.** That was a general statement. I would  
2 have had to have reviewed documentation within  
3 Active Directory in order to have seen these things.  
4 But as far as how I actually did it at the time from  
5 seven years ago now, I can't recall my exact steps.  
6 But the only way that I would have come to some of  
7 these conclusions would have been if I had looked at  
8 it.  
9 **Q.** Okay. And then on Bates 2013, just to go  
10 back for one second, you referenced 15 accounts  
11 running as domain admin.  
12 **A.** Yes.  
13 **Q.** Fifteen accounts out of how many  
14 accounts, users' accounts, that you reviewed?  
15 MR. TURNER: Object to form.  
16 **A.** So in order to view the domain admin  
17 account, you look at the group that's for domain  
18 admins and it tells you what user accounts are  
19 within that. So you can look at just that account  
20 to view it.  
21 As far as total accounts within our  
22 domain, it would have been into the thousands as far  
23 as total user accounts and service accounts across a  
24 company of that size. But you would just look  
25 specifically at the domain admin group to see how

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1 many accounts are domain admin.  
2 BY MS. WARDEN:  
3 **Q.** Did you make an assessment as to whether  
4 the company as a whole had many accounts running as  
5 domain admin?  
6 MR. TURNER: Object to form.  
7 **A.** As stated here, I had -- apparently had  
8 looked at it and it said there were 15 accounts  
9 running as domain admin.  
10 BY MS. WARDEN:  
11 **Q.** And did you view that as a systemic issue  
12 at the company?  
13 MR. TURNER: Object to form.  
14 **A.** No, these were my -- these were team  
15 administrators. So that was their role. That's  
16 their job. Their actual title is system  
17 administrator. So that's a -- that is a -- a  
18 normal -- would be considered a normal role for  
19 their job to have that title.  
20 BY MS. WARDEN:  
21 **Q.** But you also said that 15 accounts  
22 running as domain admin was an unnecessary level of  
23 risk within our environment.  
24 MR. TURNER: Object to form.  
25

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1 BY MS. WARDEN:  
2 **Q.** Right?  
3 **A.** It's very contextual. And specifically  
4 what I'm stating is that I felt like there was areas  
5 for improvement around the administrators and their  
6 use of domain admin. So it was a review of the job  
7 a month into the position and I was trying to assess  
8 what they were doing, how they were doing their job  
9 and if there's ways as a leader that I could make  
10 improvements. That's my job as a director.  
11 **Q.** And if we go back to slide ending in  
12 Bates 2015, it has the timeline. And it says: This  
13 needs to be considered a top-priority project. I  
14 recommend decreasing or dropping any noncrucial  
15 tasks to gain the needed hours.  
16 How did you arrive at your conclusion  
17 that it was a top-priority project?  
18 **A.** As mentioned, as a -- new to the position  
19 and just taking over that team, I saw an area that  
20 we could do for improvement and I felt like this was  
21 something that we should prioritize.  
22 **Q.** Prioritize in terms of resources  
23 dedicated to the issue?  
24 MR. TURNER: Objection to form.  
25 **A.** Prioritize as in in our project workload

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<p>1 can we take and put this higher -- can we put this 2 in our project workload higher up the stack. So, 3 yes, prioritize the project. 4 BY MS. WARDEN: 5 Q. Did you feel like in June 2017 that there 6 were sufficient resources committed to this domain 7 admin issue that you identified? 8 A. So, yeah. So as far as my pitching the 9 project, discussing it with the team and then later 10 on there was a lot of other factors to consider as 11 far as the viability, the technical feasibility and 12 implementation, but, yes, I don't remember having 13 any concerns after presenting the project. So I 14 don't -- nothing stands out to me at this point. 15 Q. So do you recall more resources being 16 dedicated to the domain admin issue after June 2017? 17 MR. TURNER: Object to form. 18 A. So it's my team, right, so I had to -- I 19 had leadership of the team. So it would be my 20 decision to -- how I would allocate my team and 21 resources. So it would have been of course with 22 guidance from my leadership. But it would have been 23 a matter of me making it a priority for my team 24 dependent on where we came out of with the final 25 recommendation.</p> <p>121</p>	<p>1 from a resource and prioritization perspective, that 2 was generally my decision to make of how I would 3 allocate those resources. And if -- as long as it 4 didn't defer some larger project that maybe was 5 already in works, but that was generally something 6 that was up to my decision. 7 BY MS. WARDEN: 8 Q. Okay. So if you look at No. 1 on the 9 timeline, it says -- you wrote: Perform complete 10 assessment and account audit and then it has a 11 timeline next to it, 24 hours. 12 A. Uh-huh. 13 Q. What was the complete -- first of all, 14 was this done? 15 A. I can't recall in particular to this, 16 again, seven years ago. We do a massive amount of 17 audits, both from our internal audit team and our 18 external audit teams and our internal operational 19 teams. So I would say yes, multiple times. Again, 20 this was a very quick slide that I put together a 21 month into the job. 22 Q. And what would those assessments, what 23 would they have been called? 24 MR. TURNER: Object to form. 25 A. Security assessment. Account audit. I</p> <p>123</p>
<p>1 BY MS. WARDEN: 2 Q. And did Mr. Mills agree? 3 MR. TURNER: Object to form. 4 A. I honestly can't remember the 5 conversation with Mills at this point in time. I 6 don't ever remember receiving any sort of negative 7 feedback from anyone. 8 BY MS. WARDEN: 9 Q. And you referenced when I asked whether 10 you felt like there was sufficient resources 11 committed to the domain admin issue that you 12 identified, you referenced there's a lot of factors 13 to consider as far as viability, technical 14 feasibility, implementation. 15 Does that -- are those factors as -- that 16 relate to whether or not company resources should be 17 dedicated to a particular issue? 18 MR. TURNER: Object to form. 19 A. Well, you always have to assess -- you 20 always have a finite amount of resources, so you 21 always have to assess where it falls within your 22 priority of your projects. I can't recall what 23 projects we were running at this point in time. As 24 mentioned, I had just taken this team, so I was 25 still gaining an understanding of the team. But</p> <p>122</p>	<p>1 don't -- we could have named it anything. We've 2 changed the names of things a lot over the course of 3 time. 4 BY MS. WARDEN: 5 Q. Was it someone within your team that you 6 tasked to perform complete assessment and account 7 audit? 8 MR. TURNER: Object to form. 9 A. I would -- most likely, yes, it would 10 have been one of my resources. 11 BY MS. WARDEN: 12 Q. And do you recall receiving any 13 assessments or account audits after June 2nd, 2017? 14 A. Usually at least a few a quarter, if not 15 on a more regular basis. There's all -- 16 there's -- there are dozens of audits that the 17 company performed throughout the course of a year. 18 So they're both some by my team and some by external 19 teams. So it's just a course of process for us that 20 the audits was a regular basis. 21 Q. Did you ever circle back to this timeline 22 to evaluate the company's progress toward goal 23 No. 1? 24 MR. TURNER: Object to form. 25 A. I don't know if I came back to this</p> <p>124</p>

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<p>1 specific timeline, but normal assessments and audits 2 were a standard part of our processes. 3 BY MS. WARDEN: 4 Q. And what's the significance of the hours 5 next to the numbers? 6 A. Again, if I recall, whenever I put this 7 slide together, shortly into my role, I had taken a 8 quick SWAG at how many hours it may take for an 9 individual to perform this task. 10 Q. Okay. And to your knowledge -- let's go 11 through the other ones. So No. 3: Remove admin 12 rights for all system user accounts. 13 Was this done? 14 A. So this is referring to our system 15 administrators. And removing of admin rights for 16 all roles is -- was not a possible technical thing 17 for us to perform. They wouldn't be able to do 18 their job without using admin rights. 19 Q. Okay. So item No. 3 was not completed? 20 A. Not in that manner, no. As mentioned, 21 very quick assessment that I performed and the 22 ability for them to do everything they need to do 23 within their role required administrative rights. 24 So we couldn't fully remove that. 25 Q. And when did you come to the</p> <p>125</p>	<p>1 perform administrative functions. And that was 2 our -- one of the takeaways that I think we came out 3 of this with because that was one of the 4 implementations that we did. 5 Q. After June 2nd, 2017, do you recall 6 anyone above you at the company informing you that 7 you could not remove admin rights for all system 8 user accounts? 9 A. So, again, "all system user accounts" is 10 not the proper phrasing. This is very specific in 11 this slide referring to my system administrators. 12 Their job was to be domain administrators. That's 13 what we paid them and hired them to be part of the 14 company for, was to be a domain administrator. So 15 the idea that we could remove their domain 16 administrative accounts means that they couldn't do 17 their job. So, no, I don't remember anybody coming 18 to me and telling me that my team could not do their 19 job. 20 Q. No. 7 says: Implement alarming of any 21 elevated access. 22 Was this completed? 23 A. From my awareness, this was actually 24 already in place. And I may not have learned it 25 about that until I had been in the role longer, but</p> <p>127</p>
<p>1 determination that you could not fully remove admin 2 rights for all system users? 3 MR. TURNER: Object to form. 4 A. This isn't all system users. This is 5 specifically speaking about my system administration 6 team. 7 BY MS. WARDEN: 8 Q. I'm sorry, that was my fault. When did 9 you come to the determination that you could not 10 remove the admin rights for your system 11 administration team? 12 A. I can't remember precisely, but I would 13 assume after my technical engineers took a look at 14 the proposal and probably came back to me with a 15 more viable option. 16 Q. And what was that? 17 A. Again, I -- this is seven years ago. I 18 can't remember precisely what this -- because this, 19 as I mentioned, was a very quick assessment that I 20 performed. Very new to the role. I don't remember 21 precisely where we went forward with my system 22 administrators and their accounts and every step 23 that we took between there. Our general focus had 24 become on using a dash admin account hierarchy, 25 which they would only use whenever they needed to</p> <p>126</p>	<p>1 we had an alarm that we've previously discussed that 2 was part of the InfoSec team. They managed the LEM 3 system. They triggered if any rights were elevated 4 to what they considered a privilege level. It 5 wasn't always necessarily domain administrator. 6 There were multiple roles that followed under 7 privilege administration, but domain administrator 8 was one of the functions that they alarmed off of. 9 So, yes, I would say that was completed or already 10 completed prior to my knowledge. 11 Q. Did -- were you aware of any, I guess, 12 additional alarming -- or implementation of 13 additional alerts after June 2nd, 2017? 14 MR. TURNER: Objection to form. 15 BY MS. WARDEN: 16 Q. I understand you said that you -- you 17 believe you were incorrect, right, in your statement 18 that alarms -- there was not alarming of elevated 19 access, right? 20 MR. TURNER: Objection to form. 21 A. So, again, at this point in time, a month 22 into the job, new position, new team, I 23 didn't -- was not fully aware of all the processes 24 that were involved by other teams. But the InfoSec 25 team had multiple alarms and alerts that they</p> <p>128</p>

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1 followed. One of those was elevation of an account.  
 2 As far as other alerts that they put into  
 3 replace, yes, it's a continuous evolution.  
 4 Technology's constantly changing, processes are  
 5 constantly changing. It's a week-by-week,  
 6 day-by-day, year-by-year elevation as you're working  
 7 in technology. And so, yes, there would have been  
 8 other alerts that would have been put in place in  
 9 the due course of a year.

10 (Deposition Exhibit 6 marked for  
 11 identification.)

12 BY MS. WARDEN:

13 Q. Mr. Cline, you've been presented  
 14 Deposition Exhibit -- Cline Exhibit 6. For the  
 15 record, it is Bates SW-SEC00042524-2536. It is a  
 16 January 11, 2018, e-mail from Kellie Pierce to you  
 17 and others.

18 Take a moment to review, sir.  
 19 (Witness reviews document.)

20 A. Okay.

21 BY MS. WARDEN:

22 Q. Do you recognize this document?

23 A. Not specifically. I was -- I am on the  
 24 e-mail chain, so I'm sure I would have seen it, but  
 25 I don't necessarily remember this specific version.

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1 management meetings, our audits, our external  
 2 audits, yes, there were multiple user access  
 3 meetings that I would have been a part of.

4 BY MS. WARDEN:

5 Q. And then under Attendees you're listed  
 6 under Brad, right?

7 A. I believe that's me.

8 Q. That's referring to you. Okay. Let's  
 9 just go through who else is on this e-mail. Brody  
 10 Taylor was in your -- in your team -- on your team,  
 11 right?

12 A. In 2018, me and Brody were peers. He had  
 13 the end user services team that handled onboarding,  
 14 offboarding. I had the systems team and the network  
 15 team that were specifically in my management.

16 Q. Okay. But he wasn't -- didn't have the  
 17 title director of IT, right?

18 A. Yes, I believe he was a director -- he  
 19 was hired as a director of IT. He reported to David  
 20 Mills and I reported to David Mills. We were both  
 21 directors of IT.

22 Q. Rick Holmberg, who is that?

23 A. Rick Holmberg was, I believe, a director  
 24 at this time. I can't remember precisely. He  
 25 reported to Joel Kemmerer under the business

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1 Q. Okay. But you -- you received this  
 2 e-mail, right?

3 A. Yes. Appears so, yes.

4 Q. All right. And if you look at the first  
 5 page, so it's Bates ending in 2524, the subject says  
 6 January 11th -- 1/11 user access management notes.

7 Do you see that?

8 A. Note?

9 Q. In the subject. In the subject.

10 A. Oh, in the subject. Yes.

11 Q. Do you recall attending user access  
 12 management meetings?

13 A. User access management meetings.

14 MR. TURNER: Object to form.

15 A. User access management meetings. I  
 16 believe so. It lists me as an attendee, so that  
 17 makes sense, yes.

18 BY MS. WARDEN:

19 Q. Not focusing on this, just in general, do  
 20 you recall attending user access management  
 21 meetings?

22 MR. TURNER: Object to form.

23 A. A very wide topic. There's a lot of  
 24 different facets to it. So in the course of  
 25 business in between our CAB meetings, change of

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1 application team. I believe that was his reporting,  
 2 but can't remember precisely.

3 Q. Outside of IT team?

4 A. It was in IT team. Joel Kemmerer  
 5 reported to Rani.

6 Q. Okay. Who is Brian Dougherty?

7 A. Brian Dougherty was, I believe, a  
 8 architect on the business application team. I'm not  
 9 sure precisely if he reported to Rick or to Joel.

10 Q. Okay. And then further down in the  
 11 e-mail, so Kellie Pierce is writing this e-mail, you  
 12 see Notes. Then it says, reviewed presentation, and  
 13 then discuss next steps.

14 Do you see that?

15 A. Yes.

16 Q. And then under Next Steps it says: Owner  
 17 of user access.

18 Do you see that?

19 A. Uh-huh.

20 Q. Is this the first time you recall there  
 21 being, like, next steps relating to the user access  
 22 issue?

23 MR. TURNER: Objection to form.

24 A. I believe this is specifically talking  
 25 about a GDPR-related controls, if I take this topic

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<p>1 I'm on the CC of the e-mail.</p> <p>2 <b>Q.</b> Okay. Then it says: Once 0365 is</p> <p>3 deployed, figure out how Azure and SharePoint; no</p> <p>4 action till 2018, Q3 or Q4.</p> <p>5 What is that? What are you referring to?</p> <p>6 I mean, what is that referring to?</p> <p>7 <b>A.</b> Kellie, I believe, wrote this and took</p> <p>8 the notes. So I can't remember all the details but</p> <p>9 we were looking at deploying Office 365. And so we</p> <p>10 needed to understand if there were any implications</p> <p>11 under GDPR where we would need additional controls</p> <p>12 or management in relation to GDPR specifically in</p> <p>13 that environment.</p> <p>14 <b>Q.</b> And was there a concern that it could not</p> <p>15 be implemented until Q3 or Q4 2018?</p> <p>16 <b>A.</b> I don't see any area for concern. I</p> <p>17 think she's just saying that I have no action until</p> <p>18 2018 of Q3/Q4.</p> <p>19 <b>Q.</b> You wouldn't have any role until then?</p> <p>20 <b>A.</b> That's the way I would take this</p> <p>21 phrasing.</p> <p>22 <b>Q.</b> Okay. And then under concerns it says,</p> <p>23 resource constraint. What did you understand that</p> <p>24 to mean?</p> <p>25 <b>A.</b> GDPR is a very large, I would say</p> <p style="text-align: center;">137</p>	<p>1 such a large body of work for the team to take.</p> <p>2 BY MS. WARDEN:</p> <p>3 <b>Q.</b> I'm going to direct your attention to</p> <p>4 Bates 2526, the next page. Okay. This is the</p> <p>5 attached slide deck entitled User Access Management</p> <p>6 dated January 8, 2018.</p> <p>7 Do you see that?</p> <p>8 <b>A.</b> I do.</p> <p>9 <b>Q.</b> Did you prepare this document Bates</p> <p>10 ending in 2526?</p> <p>11 <b>A.</b> No, I did not.</p> <p>12 <b>Q.</b> Do you know who did?</p> <p>13 <b>A.</b> I do not.</p> <p>14 <b>Q.</b> Did you contribute to any portion of</p> <p>15 the -- this User Access Management slide deck?</p> <p>16 <b>A.</b> I don't recall being part of the creation</p> <p>17 of the document.</p> <p>18 <b>Q.</b> All right. If you can look at 2527,</p> <p>19 Bates ending in 2527, please. Okay. Do you see</p> <p>20 where it says Problem Statement?</p> <p>21 <b>A.</b> I do.</p> <p>22 <b>Q.</b> Okay. If you can read that paragraph to</p> <p>23 yourself.</p> <p>24 (Witness reviews document.)</p> <p>25 <b>A.</b> I can, yes.</p> <p style="text-align: center;">139</p>
<p>1 implementation, and very intensive for a technical</p> <p>2 team. So anywhere where we, IT corporate, would</p> <p>3 interface with GDPR regulations would require</p> <p>4 potentially extra work which would be -- require</p> <p>5 prioritization or reprioritization of my team and</p> <p>6 staff.</p> <p>7 <b>Q.</b> So as of January 2018 was it your</p> <p>8 understanding that there was not sufficient</p> <p>9 resources for this GDPR initiative?</p> <p>10 <b>MR. TURNER:</b> Object to form.</p> <p>11 <b>A.</b> My understanding is that in our initial</p> <p>12 assessment of GDPR it was going to be a very large</p> <p>13 body of work and that was going to put a high</p> <p>14 workload on the teams that were intersecting with</p> <p>15 GDPR and GDPR's implementation.</p> <p>16 BY MS. WARDEN:</p> <p>17 <b>Q.</b> Are you aware of additional resources</p> <p>18 being allocated for GDPR?</p> <p>19 <b>MR. TURNER:</b> Object to form.</p> <p>20 <b>A.</b> Yes. We kicked off a very large GDPR</p> <p>21 initiative. It ran for at least 12 months, if not</p> <p>22 longer. There's a massive amount of documentation</p> <p>23 around that listing individuals and actions taken</p> <p>24 for compliance with GDPR. We even had T-shirts for</p> <p>25 everybody that was on the GDPR team because it was</p> <p style="text-align: center;">138</p>	<p>1 BY MS. WARDEN:</p> <p>2 <b>Q.</b> Is that first paragraph consistent with</p> <p>3 your understanding as of January 8th, 2018?</p> <p>4 <b>MR. TURNER:</b> Objection to form.</p> <p>5 <b>A.</b> No. From my perspective of the processes</p> <p>6 that we followed in our UAR access reviews, that is</p> <p>7 not consistent.</p> <p>8 BY MS. WARDEN:</p> <p>9 <b>Q.</b> And why not?</p> <p>10 <b>A.</b> Because beyond the onboarding and</p> <p>11 offboarding, which we track through our Web Help</p> <p>12 Desk and later on the SolarWinds Service Desk</p> <p>13 systems, we had multiple processes in place around</p> <p>14 the onboarding and offboarding of users and their</p> <p>15 accounts.</p> <p>16 <b>Q.</b> Was there a standardized process in place</p> <p>17 as of January 2018?</p> <p>18 <b>A.</b> There was. That's where the Web Help</p> <p>19 Desk, the SARF that we've referred to, so the</p> <p>20 systems access request form, and that digital</p> <p>21 process that flowed through our Web Help Desk</p> <p>22 managed our onboarding and offboarding of all rights</p> <p>23 and identity for a standard user.</p> <p>24 <b>Q.</b> So you don't agree that these were -- you</p> <p>25 don't agree with the problem statement in this Bates</p> <p style="text-align: center;">140</p>

<p>1 ending in 2527?</p> <p>2 MR. TURNER: Object to form.</p> <p>3 BY MS. WARDEN:</p> <p>4 Q. You don't agree that it's a problem as of</p> <p>5 January 2018?</p> <p>6 MR. TURNER: Object to form.</p> <p>7 A. I do not. From my point of view, I did</p> <p>8 not see these issues.</p> <p>9 BY MS. WARDEN:</p> <p>10 Q. Okay. If you can turn to Bates ending in</p> <p>11 2530, please. Do you see at the top it says</p> <p>12 Proposed Recommendation?</p> <p>13 A. Yes.</p> <p>14 Q. Okay. And under Recommended Solution, it</p> <p>15 says in yellow: Leverage Azure for user access</p> <p>16 management and incorporate SharePoint workflows for</p> <p>17 end users and permission management.</p> <p>18 Do you see that?</p> <p>19 A. I do.</p> <p>20 Q. Okay. So was that not done as of</p> <p>21 January 2018?</p> <p>22 MR. TURNER: Object to form.</p> <p>23 A. So it's referred to on the first page of:</p> <p>24 Once Office 365 is deployed, figure out how Azure</p> <p>25 and SharePoint. No action until 2018, Q3 and Q4.</p> <p style="text-align: center;">141</p>	<p>1 cybersecurity best practice?</p> <p>2 MR. TURNER: Object to form.</p> <p>3 A. I don't know if that necessarily has</p> <p>4 anything do with cybersecurity. Azure AD is just a</p> <p>5 new type of Active Directory. It's a next</p> <p>6 generation of technology from Microsoft.</p> <p>7 BY MS. WARDEN:</p> <p>8 Q. Is it an Active Directory best practice?</p> <p>9 MR. TURNER: Object to form.</p> <p>10 A. It's a new -- it was a new piece of</p> <p>11 technology. We were implementing a new piece of</p> <p>12 technology. So the cloud had come out. We were</p> <p>13 moving to the cloud.</p> <p>14 BY MS. WARDEN:</p> <p>15 Q. And when was Azure AD fully implemented?</p> <p>16 MR. TURNER: Object to form.</p> <p>17 A. I need to go back to our project slides,</p> <p>18 but as Kellie referenced, this was around the time</p> <p>19 that we were moving into Office 365 and Azure --</p> <p>20 both of those required Azure AD in order for you to</p> <p>21 provision users into those environments. So if</p> <p>22 you're moving into Office 365, you have to have</p> <p>23 Azure AD. We started our move into Office 365</p> <p>24 sometime in 2018. That would have necessitated</p> <p>25 Azure AD to make that work.</p> <p style="text-align: center;">143</p>
<p>1 What that's referencing is our migration</p> <p>2 into Azure Active Directory. So that was a new</p> <p>3 migration to a new type of Active Directory that was</p> <p>4 cloud-hosted.</p> <p>5 So I believe at the point in time that</p> <p>6 this slide was created we would not have migrated to</p> <p>7 Azure Active Directory. I think she's referring to</p> <p>8 that in the future as an ongoing project.</p> <p>9 BY MS. WARDEN:</p> <p>10 Q. And was Azure AD meant to standardize</p> <p>11 access management controls?</p> <p>12 A. Azure AD was meant to move us into the</p> <p>13 cloud, so the goal around that was to provide us</p> <p>14 with a cloud-based Active Directory rather than an</p> <p>15 on-prem hosted Active Directory. It wasn't a matter</p> <p>16 of controls.</p> <p>17 Q. Well, did Azure AD standardize something?</p> <p>18 MR. TURNER: Object to form.</p> <p>19 A. Azure AD gave us a new piece of</p> <p>20 technology and a new way of managing our user</p> <p>21 identity. Specifically it was needed for moving</p> <p>22 into a cloud environment from an on-prem</p> <p>23 environment.</p> <p>24 BY MS. WARDEN:</p> <p>25 Q. Is it fair to say Azure AD was a</p> <p style="text-align: center;">142</p>	<p>1 (Deposition Exhibit 7 marked for</p> <p>2 identification.)</p> <p>3 BY MS. WARDEN:</p> <p>4 Q. Mr. Cline, you've been presented with</p> <p>5 what has been marked Cline Exhibit 7. For the</p> <p>6 record, it's Bates SW-SEC00042892-2964. It is a</p> <p>7 March 16, 2018, e-mail from you. Take your time to</p> <p>8 look at it.</p> <p>9 (Witness reviews document.)</p> <p>10 MR. TURNER: While the witness is</p> <p>11 reading the document, I'm going to go grab my</p> <p>12 glasses.</p> <p>13 BY MS. WARDEN:</p> <p>14 Q. I will direct you to certain sections.</p> <p>15 A. Okay.</p> <p>16 Q. Okay. So, Mr. Cline, do you recognize</p> <p>17 this document?</p> <p>18 A. I recognize the form of the project</p> <p>19 portfolio. I can't say that I specifically remember</p> <p>20 this version. It was a normal weekly thing that we</p> <p>21 would review with our leadership.</p> <p>22 Q. Okay. And -- all right. You sent this</p> <p>23 e-mail, right, in document Bates ending in 2892?</p> <p>24 A. Yes, I sent the e-mail specifically, yes.</p> <p>25 Q. And you sent it to -- so in March 2018</p> <p style="text-align: center;">144</p>

1 before you decided that?

2 **A.** I don't specifically recall. I know as

3 mentioned, Eric and some other people are listed on

4 here. I also had passed it on to Bill Carroll. So

5 there's multiple other people that would have been

6 aware of it.

7 **Q.** Who is Bill Carroll?

8 **A.** He was -- as mentioned previously, he was

9 my leader after David Mills and before I was

10 reporting to Rani Johnson. So he was the senior

11 director of IT during the 2018 time frame.

12 **Q.** And then, sorry, the last sentence of his

13 proposal, just to finish this: For everyone else,

14 there could be one or two separate VPN gateways per

15 region with stricter policy (access to less

16 resources).

17 Do you see that?

18 **A.** I do.

19 **Q.** And did you not agree with that,

20 Mr. Krajcir's proposed there as well?

21 **A.** I think ultimately we did agree as

22 reducing our VPN gateways provided a better

23 experience for our end users. And so we did

24 implement some of those recommendations and I saw

25 that as a project that Robert could run and get him

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1 some visibility to our leadership team.

2 **Q.** When was -- when was the proposal

3 relating to one or two separate VPN gateways per

4 region with stricter policy implemented?

5 **A.** I would have to go to our

6 management -- our DOIT management portfolio. I

7 don't remember precisely when we did the gateway

8 work.

9 **Q.** And was that under your group?

10 **A.** Yes, it would have been.

11 **Q.** Okay. So your group implemented that

12 change?

13 **A.** Yes.

14 **Q.** All right. If you can go back to Bates

15 1654. Do you see Krajcir's August 24, 2018, e-mail

16 to you and others?

17 **A.** I do.

18 **Q.** So this is about two and a half months

19 after Krajcir first e-mails you, right?

20 **A.** That seems correct, yes.

21 **Q.** Okay. Krajcir writes: I would like to

22 drag your attention back to this topic.

23 So I asked you if you had discussions

24 with Krajcir after his June 4th e-mail. Do you

25 recall talking to him, if this helps jog your

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1 memory, before he e-mailed you back again on

2 August 24th, 2018?

3 **A.** I don't remember specifically. As

4 mentioned, we had both team meetings and we had some

5 one-to-one cadences. And so if we're talking about

6 a month of time lapsed, yes, I would say we would

7 have met --

8 **Q.** Two and a half months.

9 **A.** Two and a half months, we would have met,

10 yes.

11 **Q.** Okay. And you mentioned there was a

12 change that was made from Mr. Krajcir's e-mail, the

13 two separate VPN gateways per region.

14 Was that done prior to August 24th, 2018?

15 **A.** As mentioned, I don't remember the

16 precise implementation dates for the gateway

17 modification.

18 **Q.** Okay. Krajcir wrote on Bates 1654:

19 Implementing certificates is essential to enforce

20 proper security policies not only on VPN but also on

21 corporate wireless to properly address BYOD problem.

22 Do you see that?

23 **A.** I do.

24 **Q.** And is BYOD bring your own device?

25 **A.** Yes, I believe that's what it would be

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1 referring to.

2 **Q.** Okay. And what do you understand the

3 issue that Krajcir is identifying here? Is it

4 slightly different?

5 **A.** No. This is the same topic.

6 **Q.** Okay. Which is what?

7 **A.** He's referring to attempting to implement

8 certificates on devices joining our VPN to remove

9 the potential for unmanaged devices.

10 **Q.** Okay. And what was your opinion as to

11 Mr. Krajcir's sentence there? Did you agree with

12 it, not agree with it?

13 **A.** The same as the first e-mail and

14 statement. I did not agree with it.

15 **Q.** Okay. Would you describe the

16 implementation of machine certificates to be an

17 industry best practice?

18 **A.** No. Machine certificates are easily

19 subverted and at this point in time it was very

20 common in the wild for threat actors to circumvent

21 machine certificates. An end user could also copy a

22 certificate and replicate it. It's not -- it's not

23 a secure piece of technology.

24 **Q.** Okay. A little bit further down

25 Mr. Krajcir says: We see -- wrote: We see every

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<p>1 day that people are accessing our corporate WiFi 2 with their smartphones or other devices that are not 3 joined in the domain. This seems to be common 4 practice. 5 Do you see that? 6 <b>A.</b> I do. 7 <b>Q.</b> How common was this practice in your 8 opinion as the network administrator? 9 <b>A.</b> It was standard to access WiFi. 10 <b>Q.</b> Standard for people to access SolarWinds' 11 WiFi on their smartphones? 12 <b>A.</b> Yes. 13 <b>Q.</b> Okay. And so that was happening in 14 August 2018? 15 <b>A.</b> Yes. 16 <b>Q.</b> Was it happening the whole time you were 17 at SolarWinds? 18 <b>A.</b> Yes. It's how we get on the network. 19 <b>Q.</b> What are the risks to SolarWinds 20 associated with this practice? 21 <b>A.</b> The same risk as accessing any piece of 22 software with any device anywhere in the world. 23 It's a standard due course of process. You use your 24 device to access a network and then to access your 25 applications and services.</p> <p style="text-align: center;">185</p>	<p>1 <b>Q.</b> Do you agree that this behavior was 2 occurring in August 2018? 3 <b>A.</b> No, do not. 4 <b>Q.</b> Why not? 5 <b>A.</b> So in general -- or not in general, but 6 the way that we had -- the way we had it designed, 7 and this was implementation of our next-generation 8 firewalls that get referred to in multiple places 9 here, I believe. There were zones. We had a couple 10 hundred different zones that would be broken down 11 between offices, within an office, within a device 12 type. And each one of those zones had their own 13 rules regarding what type of traffic could 14 transition from that zone to another zone. And 15 that's where the firewall rules would come into 16 place. So we had multiple both what are called ACLs 17 for each one of those zones depending on if it was 18 considered an adversarial zone or a standard 19 corporate zone, what type of device was on that 20 zone. And at that point in time the firewall, they 21 both looked at the behavior heuristically. If it 22 saw anything normal from a data transmission or 23 session standpoint, it would shut down that session 24 and trigger an alert that went to the InfoSec team. 25 Also by default ports were blocked</p> <p style="text-align: center;">187</p>
<p>1 <b>Q.</b> What does not joined in the domain mean? 2 <b>A.</b> A non-domain joined device just means 3 that device is not joined to the domain. It's just 4 not -- it's not on the domain, not joined to the 5 domain. 6 <b>Q.</b> Okay. And then Krajcir writes: While we 7 do not have any control over such device (proper 8 antivirus, NetScope, OS updates, et cetera), it can 9 easily reach any resource on any port on our 10 corporate or SW dev network. 11 Do you see that? 12 <b>A.</b> I do. 13 <b>Q.</b> What does it mean to reach any resource 14 on any port on our corporate or SW dev network? 15 <b>A.</b> Again, Robert was very new to the 16 company. He was also a junior engineer. He did not 17 understand what systems were in place. So that's a 18 completely incorrect statement. You cannot access 19 any port or any device on our network from any 20 device. That's just not accurate. 21 <b>Q.</b> Krajcir wrote then: While on corporate 22 WiFi or VPN such device can basically do whatever 23 without us detecting it until it's too late. 24 Do you see that? 25 <b>A.</b> I do.</p> <p style="text-align: center;">186</p>	<p>1 depending on what zone you were traversing and 2 depending on the risk of the type of traffic. So 3 there's a lot of consideration around what can and 4 cannot happen from zone to zone. And that was where 5 a lot of our -- much of our security was that Robert 6 doesn't seem to be aware of when he's writing this. 7 <b>Q.</b> Did you inform Robert of this? 8 <b>A.</b> I can't remember if I sat down with him 9 directly and walked him through it. That might have 10 been something that Charles would have done as his 11 manager. As director, my roles were much broader 12 than educating a junior engineer on our environment. 13 That would have been something more for his direct 14 manager. 15 <b>Q.</b> Can you help me understand these zones? 16 You're saying the zones detect -- the zones detected 17 any devices that were on the network, that were 18 accessing the network? 19 <b>MR. TURNER:</b> Objection to form. 20 <b>A.</b> Yes. With any firewall or any network, 21 you have what are called VLANs. You break up or 22 segment based on, called IP addresses or CIDR 23 blocks. You break up traffic into generally small 24 contained groups. So the zone may be 128 devices, 25 it may be 256, it may be ten, depending on how you</p> <p style="text-align: center;">188</p>

<p>1 decide to approach that zone. So you create zones. 2 And as I mentioned we had literally hundreds of them 3 across our sites and data centers. 4 Depending on the type of device, if it 5 was a wireless device, if it was a phone, if it was 6 a laptop, if it was a server, if it was considered 7 adversarial, meaning an unmanaged device coming into 8 our VPN, they all had different rules that were 9 automatically applied. If it was in an adversarial 10 zone, devices cannot talk to each other on that 11 zone. They may be able to talk out, but only on a 12 specific allowed port. And at that point all 13 traffic packet by packet was scanned by that 14 firewall looking for malicious behavior, potentially 15 a virus, anything that it saw abnormal. 16 We had a subscription with Palo Alto to 17 what was called WildFire, a subscription service 18 that they provided where they were watching globally 19 all of their firewalls across all of their companies 20 and if they saw something suspicious happening in 21 one region, they would send out a heuristic 22 imprint that would get fed to all your devices so 23 that it would also look for that behavior in your 24 region and flag it. 25 That flag, how we handled that in normal</p> <p style="text-align: center;">189</p>	<p>1 MR. TURNER: Object to form. 2 A. NetScope wasn't used for detecting 3 anything having to do with managed or unmanaged. 4 NetScope was a piece of DLP software. So it would 5 look for potentially behavior on that device. So it 6 was just another layer of security, much like 7 antivirus would be on a device. 8 BY MS. WARDEN: 9 Q. Okay. Then further down Mr. Krajcir 10 writes: It can compromise entire networks by 11 spreading malware (spyware, viruses, trojans, 12 ransomware), because we cannot ensure that such 13 device will be fully compliant in terms of OS 14 updates, antivirus, software installed, et cetera. 15 Did you agree with Mr. Krajcir's opinion? 16 A. I did not. Referring to my earlier 17 description of how the firewall worked from zone to 18 zone, we would see any sort of virus-type activity 19 traversing a zone or in a normal session egressing 20 our WiFi or any of our zones. So that risk we did 21 not feel -- or I did definitely not feel was there 22 with those other controls in place. 23 Q. Because the firewalls were sufficient in 24 your opinion? 25 A. Yes.</p> <p style="text-align: center;">191</p>
<p>1 standard process in our business was that would 2 alert to the InfoSec team and the network team for 3 review so that they could go and look to see what 4 something might be malicious happening within our 5 environment. So that was the zones and how we 6 utilized our next-generation firewalls to manage 7 that and that's why I did not feel like an unmanaged 8 device coming in on VPN was a risk. 9 BY MS. WARDEN: 10 Q. Okay. Further down, just going through 11 Mr. Krajcir's comments, he says -- do you see where 12 it says: It can easily download any content without 13 being detected by NetScope which is normally 14 installed on all domain PCs? 15 Do you see that? 16 A. I do. 17 Q. All right. What is NetScope? 18 A. NetScope is a DLP software I believe is 19 its primary focus, but that was managed by the 20 InfoSec team. So I did not ever have management of 21 it. I'm not intimately familiar with everything 22 that it's capable of doing. 23 Q. Are you aware of whether there's a 24 difference in how quickly NetScope would detect an 25 unmanaged device compared to a managed device?</p> <p style="text-align: center;">190</p>	<p>1 Q. Okay. Further down Mr. Krajcir says: We 2 know that sometimes people are leaving the company 3 but their AD credentials remain active for a few 4 more days. 5 What did you understand the issue that 6 Mr. Krajcir was identifying? 7 A. Well, he's trying to say that somebody 8 may leave and their account may still be active. 9 But once again, junior engineer, six months on the 10 job. He did not work on the team that handled 11 onboarding and offboarding, so I don't know where he 12 would have come to this conclusion. 13 Q. So you don't agree that this behavior was 14 happening in August 2018? 15 A. No, I do not. We had multiple controls 16 and audits in place around our onboarding and 17 offboarding. 18 Q. All right. At the end he has another 19 proposal. This is the August 24, 2018, proposal. 20 He suggests: Trim down user admin rights so that 21 they won't be able to export certificates on their 22 PC. 23 Do you see that? 24 A. I do. 25 Q. What has been done to reduce admin rights</p> <p style="text-align: center;">192</p>

1 as of August 2018? What had been done to reduce  
2 admin rights?

3 MR. TURNER: Object to form.

4 A. So to be clear, he's talking about  
5 administrative rights on your local device. So  
6 that's the ability to add a printer, join the WiFi,  
7 change your wallpaper. Those are normal rights that  
8 a user needs on their desktop to do their job. So  
9 removing admin rights was not an option and not a  
10 good recommendation. And especially to do that to  
11 manage certificates, which was an outdated piece of  
12 technology, was not a good recommendation.

13 So, yes, users had local admin rights  
14 strictly to their device so that they could change  
15 their wallpaper, add a printer. And that was the  
16 extent of those administrative rights for a standard  
17 user.

18 BY MS. WARDEN:

19 Q. Why did you interpret Mr. Krajcir's  
20 reference to admin rights to be local admin rights?

21 A. Because the only users in our environment  
22 that had admin right -- the only place where a user  
23 would have had admin rights is to their laptop or  
24 device. As discussed previously, as I called out in  
25 my slide around systems administrators, generally

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1 business. What he's specifically, I believe,  
2 referring to is a machine certificate in relation to  
3 VPN access. As mentioned, we did not see that as a  
4 secure piece of technology and we did not see it as  
5 an improvement to our environment.

6 BY MS. WARDEN:

7 Q. Third thing Mr. Krajcir suggests is set  
8 VPN and wireless policies to accept only devices  
9 with valid certificate and with valid AD  
10 credentials.

11 Do you see that?

12 A. I do.

13 Q. What was your reaction to this proposal?

14 A. Same as all of his others around  
15 certificates. It's not a viable option and it did  
16 not improve, in my opinion, security in any way.

17 Q. Going back to the -- briefly to the  
18 enroll certificates suggestion that Mr. Krajcir had.  
19 What was your understanding as to whether users  
20 could export certificates on their PC as of  
21 August 24th, 2018?

22 A. If you have local administrative rights,  
23 or even without them, there are ways to export a  
24 certificate from a machine. You can then copy that  
25 file over to another device and potentially

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1 only systems administrators or, like, the 15 users  
2 that I had responded to -- or described in that  
3 slide were the only people with actual domain admin  
4 rights, which is strictly speaking an Active  
5 Directory thing. So there's a lot of different  
6 administrative rights and he's talking about their  
7 PC. So he's talking about local PC administrative  
8 rights.

9 Q. Mr. Krajcir also proposes enroll  
10 certificates.

11 Do you see that?

12 A. I do.

13 Q. Okay. What's your opinion with respect  
14 to that?

15 A. The same as previously. This would be  
16 the machine certificates that was not a secure piece  
17 of technology, was not an improvement.

18 Q. Okay. So no work had been done as of  
19 August 2018 to enroll certificates, correct?

20 MR. TURNER: Object to form.

21 A. If we get into certificates, we're  
22 talking about a lot of different places that you  
23 enroll certificates. So if we're talking about the  
24 context of PCs, there were domain certificates that  
25 we utilized for different functions within the

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1 duplicate that certificate. So it's just a file  
2 that can be copied and duplicated.

3 Q. What kinds of certificates?

4 MR. TURNER: Objection to form.

5 A. In this context?

6 BY MS. WARDEN:

7 Q. Yeah. What kinds of certificates could  
8 be exported to a PC?

9 A. Any. Any certificate. That's why it's  
10 not a secure piece of technology.

11 Q. Did you see that as a security risk?

12 MR. TURNER: Objection to form and  
13 asked and answered. He's been over this, again, ten  
14 times at least.

15 A. Did I see -- I saw relying on  
16 certificates as a security risk in this -- in the  
17 context that he is describing here.

18 BY MS. WARDEN:

19 Q. Was the fact that users could export  
20 certificates on their PC as of August 24, 2018, did  
21 you see -- did you view that as a security risk?

22 MR. TURNER: Objection to form, asked  
23 and answered. You're not listening to the witness.

24 A. No, I did not believe certificates were a  
25 function. Whether you are -- that would pose a

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<p>1 security risk if you could copy that  2 certificate -- it's not a secure piece of  3 technology. You don't want to rely on certificates.  4 MS. WARDEN: The court reporter would  5 like to break, so let's break.  6 THE VIDEOGRAPHER: Going off the  7 record. Time is 3:33 p.m.  8 (Recess taken from 3:33 p.m. to  9 3:53 p.m.)  10 THE VIDEOGRAPHER: Back on the  11 record. Time is 3:53.  12 BY MS. WARDEN:  13 Q. Mr. Cline, can you turn to the very first  14 page of Exhibit 9, Bates ending in 1653, please.  15 A. Yes.  16 Q. Okay. Does this appear to be an August  17 30th, 2018 e-mail from Robert Krajcir to you and  18 others?  19 A. Yes.  20 Q. Okay. It's a continuation of an e-mail  21 chain we've been discussing?  22 A. Yes, correct.  23 Q. Okay. So Mr. Krajcir writes: Please  24 find attached the presentation I used today so you  25 can show to anyone you deem appropriate.</p> <p>197</p>	<p>1 concerning to you.  2 A. And specifically the e-mails attached?  3 Q. Yeah.  4 (Witness reviews document.)  5 A. No, I do not see any particular  6 statements that are concerning to me.  7 BY MS. WARDEN:  8 Q. Did you participate in any calls or  9 meetings to address the risks detailed in  10 Mr. Krajcir's BYOD solution PowerPoint?  11 A. Not beyond the e-mail communications. I  12 don't remember a specific -- as mentioned, we did  13 spawn some projects based around the gateways. And  14 then he's referencing some Office 365 items, so  15 there would have been other intersecting projects  16 potentially that would have overlapped with some of  17 the statements here. But I don't remember a  18 specific meeting beyond the conversations that  19 were -- would have been in just our normal team  20 meetings and in the e-mail communications.  21 Q. After August 30th, 2018, did Mr. Krajcir  22 bring up the issues identified in the BYOD  23 PowerPoint to you?  24 MR. TURNER: Object to form.  25 A. I believe he did because we had -- as</p> <p>199</p>
<p>1 Do you see that?  2 A. Yes.  3 Q. Do you see that language?  4 Okay. Was there a -- did Mr. Krajcir  5 share the PowerPoint starting in Bates 1659 on some  6 kind of WebEx or video platform with you on  7 August 30th, 2018?  8 A. He lists the attendees here and I'm not  9 on the list of attendees.  10 Q. Okay. Have you -- but are you aware of  11 it happening?  12 A. I mean, I am in --  13 Q. Were you told about it?  14 A. I can't recall specifically in 2018.  15 Q. Okay. So if you can just turn to the  16 slide deck, so it starts at 1659 and it goes to  17 1668.  18 A. Yes.  19 Q. Can you just briefly flip through it -- I  20 mean, I realize you have already testified that you  21 didn't agree with Mr. Krajcir's comments, so I don't  22 want to waste your time, but briefly flip through it  23 and I'll ask you if there's anything else that  24 Mr. Krajcir brought up in this presentation that he  25 did not already bring up in your e-mails that was</p> <p>198</p>	<p>1 mentioned, I had seen this as a coaching opportunity  2 for Robert. I met with him on site in Brno later in  3 that year and I believe, if I recall correctly, we  4 had a pretty long conversation because we were late  5 to meeting the team for dinner, just generally  6 around leadership, leadership potential, some of the  7 programs and projects he was running. So it may  8 have been covered in our discussions face-to-face at  9 that time, but, again, 2018 I can't recall precisely  10 all my conversations with him.  11 BY MS. WARDEN:  12 Q. Did Mr. Krajcir ever tell you whether he  13 felt like SolarWinds properly addressed the concerns  14 that he raised in the BYOD PowerPoint?  15 A. I don't -- I don't recall that specific  16 type conversation.  17 (Deposition Exhibit 10 marked for  18 identification.)  19 BY MS. WARDEN:  20 Q. You have been presented Cline Exhibit 10.  21 For the record, it's SW-SEC00031564 through 69. At  22 the top it says 2H 2019 CTL/DOIT R4R Goals.  23 Take a minute to review it, sir.  24 (Witness reviews document.)  25 A. Okay.</p> <p>200</p>

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1 recall, when I directly joined in 2016, there was  
 2 security training. It was a regular occurrence.  
 3 (Deposition Exhibit 11 marked for  
 4 identification.)  
 5 BY MS. WARDEN:  
 6 Q. Mr. Cline, you've been presented Cline  
 7 Exhibit 11. For the record, it's SW-SEC00031499  
 8 through 57. It is a October 29, 2019, e-mail from  
 9 you to Rani Johnson attaching a slide deck. Take  
 10 your time looking at it.  
 11 (Witness reviews document.)  
 12 A. Okay.  
 13 Q. Okay. Do you recognize this document,  
 14 sir?  
 15 A. Yes, I recognize the general document.  
 16 BY MS. WARDEN:  
 17 Q. Okay. Does this appear to be an e-mail  
 18 from you to Rani Johnson on October 29, 2019?  
 19 A. Yes.  
 20 Q. All right. If you turn to Bates ending  
 21 in 1500, there's an attached slide deck to this  
 22 e-mail entitled Monthly Ops Review September 2019.  
 23 Do you see that?  
 24 A. I do.  
 25 Q. This was sent -- this e-mail was sent one

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1 month before you left the role of director of IT,  
 2 correct?  
 3 A. That sounds correct, yes.  
 4 Q. Okay. Did you prepare the slide deck  
 5 entitled Monthly Ops Review?  
 6 A. No. I would have had a portion on it  
 7 that I would have made adjustments to and I would  
 8 have supplied that.  
 9 Q. Okay. Who had primary responsibility  
 10 over the monthly ops review?  
 11 A. It would have consisted among a few dozen  
 12 people underneath Rani Johnson amongst their  
 13 different areas. So I can't speak to everyone who  
 14 would have had a piece in this, but it would have  
 15 all been primarily those teams reporting to Rani.  
 16 Q. Okay. Do you recall discussing monthly  
 17 ops reviews on a particular cadence?  
 18 MR. TURNER: Objection to form.  
 19 A. We had those monthly.  
 20 BY MS. WARDEN:  
 21 Q. Okay. And who attended those?  
 22 A. As mentioned, primarily Rani Johnson's  
 23 staff. So if I recall the ones that attended, it  
 24 was generally a pretty large meeting, both local and  
 25 remote folks.

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1 Q. Was Tim Brown present?  
 2 MR. TURNER: Objection to form.  
 3 A. As mentioned, they were monthly. I can't  
 4 speak to every meeting or what the attendance was,  
 5 so I would say --  
 6 BY MS. WARDEN:  
 7 Q. Did Mr. Brown typically attend these  
 8 monthly ops reviews?  
 9 A. I don't remember when these started. As  
 10 mentioned, it was the month before I left. I can't  
 11 remember if we had started it earlier than that. So  
 12 I cannot recall the attendees in person at these  
 13 meetings.  
 14 Q. Okay. If you can turn to Bates 1527. Do  
 15 you see at the top it says Lessons Learned/Problems  
 16 September 2019?  
 17 A. Yes.  
 18 Q. Okay. You mentioned you worked on some  
 19 of the slides. Is this Bates ending in 1527 a slide  
 20 that you recall working on?  
 21 (Witness reviews document.)  
 22 A. I cannot recall if I specifically worked  
 23 on this slide.  
 24 BY MS. WARDEN:  
 25 Q. Okay. Do you see where it says

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1 Incomplete/Inconsistent Monitoring?  
 2 A. Yes.  
 3 Q. All right. And under it says:  
 4 Incomplete monitoring for critical services or  
 5 features of a service have -- says lead to  
 6 approximate poor reaction time for outages or  
 7 service degradations.  
 8 Do you see that?  
 9 A. I do, yes.  
 10 Q. Is that an accurate reflection of  
 11 SolarWinds monitoring as of September 2019?  
 12 MR. TURNER: Objection to form and  
 13 foundation.  
 14 A. A, I don't have full context. The  
 15 context of this slide in particular is talking about  
 16 our TDF blended circuit and issues that we were  
 17 experiencing within that particular data center and  
 18 with that particular circuit. So I don't remember  
 19 the exact details or even if I put this slide  
 20 together, but I would not say that's representative  
 21 of some wider situation. It's talking about TDF.  
 22 We were -- we created network monitoring  
 23 software. That's what we did as a business.  
 24 There's 30 slides in here on us talking a SWOC and  
 25 the level of monitoring that we do within our

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<p>1 network. So our maturity of our monitoring was  2 extreme. The standards that we had was extreme  3 compared to the normal because we wanted to lead the  4 way in how we monitor and how we used our products.  5 BY MS. WARDEN:  6 <b>Q.</b> Is it fair to say you don't agree with  7 that statement?  8 <b>MR. TURNER:</b> I'm sorry. Objection to  9 form.  10 <b>A.</b> Yes, I believe if I didn't make it clear,  11 I object to that as a blanket statement. It has a  12 specific context.  13 BY MS. WARDEN:  14 <b>Q.</b> Okay. Do you have any familiarity with  15 the incidents on the right column, Related  16 Incidents? Were they in -- were they in your area  17 of responsibility?  18 <b>A.</b> Potentially if this is talking about  19 traffic ingressing or egressing from our TDF and to  20 other regions, then there is a chance that as we  21 were having circuit issues on a blended circuit in  22 our data center, TDF is our Texas Data Foundry data  23 center. And if there was something there with a  24 firewall or other issue that caused an interruption,  25 that's what we're referencing that we had an</p> <p>221</p>	<p>1 <b>MS. WARDEN:</b> Same objection to  2 Mr. Turner.  3 <b>A.</b> Specifically the context of this slide  4 refers to Texas Data Foundry blended circuit. We  5 were not allowed to monitor Texas Data Foundry's  6 blended circuit. It was their equipment. They  7 would not allow us to monitor. If they allowed  8 every one of their customers to monitor it, we would  9 cause a DDoS attack and take their equipment down.  10 So, yes, we could not monitor their  11 equipment. So I do not see anywhere else that this  12 applies but in this context, which is Texas Data  13 Foundry as listed at the very top of the slide.  14 (Deposition Exhibit 12 marked for  15 identification.)  16 BY MS. WARDEN:  17 <b>Q.</b> Mr. Cline, you've been presented with  18 Cline Exhibit 12. It's for the record Bates  19 SW-SEC00008996 through 97. It is an October 30th,  20 2020, e-mail from Chris Day to you and others. Take  21 as much time as you need to review.  22 (Witness reviews document.)  23 <b>A.</b> Okay.  24 BY MS. WARDEN:  25 <b>Q.</b> You received this -- sorry. Do you</p> <p>223</p>
<p>1 interruption in service.  2 One note here as I think about this  3 further. TDF did not allow us to monitor their  4 circuits. So we could only monitor our network and  5 our gear. So our ability to monitor their gear was  6 not allowed. So we had a spot that we could not  7 monitor to the same level that we monitor our  8 internal-owned SolarWinds equipment. And so that's  9 very possibly what this may have been referring to.  10 Because I remember us having issues with our blended  11 circuit there in Data Foundry and it was a  12 consistent issue that had us move away from using  13 that service as our primary network for Texas Data  14 Foundry.  15 <b>Q.</b> So for the slide in Bates 1527, I  16 understand that you don't agree with the statement,  17 Incomplete monitoring for critical services, but are  18 you aware of any steps taken around the time of this  19 slide deck that you sent to the CIO, okay, in  20 October 2019, are you aware of any steps to address  21 this slide that identified incomplete monitoring for  22 critical services?  23 <b>MR. TURNER:</b> Objection, asked and  24 answered. You're continuing not to listen to what  25 the witness is telling you.</p> <p>222</p>	<p>1 recognize this document?  2 <b>A.</b> Yes. I believe I've seen it before.  3 <b>Q.</b> And you received this e-mail from  4 Mr. Day?  5 <b>A.</b> That appears to be correct, yes.  6 <b>Q.</b> October 30th, 2020, is the month you  7 rejoined SolarWinds as senior director of IT, right?  8 <b>A.</b> That's correct.  9 <b>Q.</b> Okay. So Mr. Day wrote to you: All, see  10 attached. Q4 risk report.  11 And then if you see towards the bottom it  12 mentions Brad, dash, slide 6 low score on BCP.  13 Do you see that?  14 <b>A.</b> Yes.  15 <b>Q.</b> All right. Do you recall contributing to  16 the quarterly risk review slide deck that is  17 attached to this e-mail dated October 27, 2020?  18 <b>A.</b> I do not see any slides that look  19 familiar to me as far as that I would have worked  20 on.  21 <b>Q.</b> Let's take a look at slide 6 since that's  22 what Mr. Day referenced in the e-mail. So it  23 doesn't have a Bates, but it has 6 at the bottom.  24 Do you see that?  25 <b>A.</b> Yes.</p> <p>224</p>

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REPORTER'S CERTIFICATION

I, Micheal A. Johnson, Registered Diplomat  
Reporter and Notary Public in and for the State of  
Texas, certify that on the 1st day of October, 2024  
I reported the Videotaped Deposition of BRAD CLINE,  
after the witness had first been duly cautioned and  
sworn to testify under oath; said deposition was  
subsequently transcribed by me and under my  
supervision and contains a full, true and complete  
transcription of the proceedings had at said time  
and place; and that reading and signing was not  
requested.

I further certify that I am neither counsel  
for nor related to any party in this cause and am  
not financially interested in its outcome.

GIVEN UNDER MY HAND AND SEAL of office on  
this 7th day of October, 2024.

\_\_\_\_\_  
MICHEAL A. JOHNSON, RDR, CRR  
NCRA Registered Diplomat Reporter  
NCRA Certified Realtime Reporter

Notary Public in and for the  
State of Texas  
My Commission Expires: 8/8/2028

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IN THE UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF NEW YORK

SECURITIES AND EXCHANGE COMMISSION,	)	
	)	
Plaintiff,	)	
	)	
v.	)	Civil Action No. 1:23-cv-09518-PAE
	)	
SOLARWINDS CORP. and TIMOTHY G.	)	
BROWN,	)	
	)	
Defendants.	)	
	)	
	)	

**Notice of Errata – Deposition of Brad Cline**  
**(October 1, 2024)**

I, the undersigned, do hereby declare that I have read the deposition transcript of Brad Cline dated October 1, 2024 and that to the best of my knowledge, said testimony is true and accurate, with the exception of the following changes listed below:

Page	Line(s)	Change		Reason
		From	To	
43	4	a logging event manager	Log Event Manager	Clarification
53	16	statements over the year	statements over the years	Transcription Error
74	11	was that that	was that	Clarification
115	15	there's -- doesn't cover	this doesn't cover	Clarification
129	3	replace	place	Transcription Error
129	6	elevation	evolution	Transcription Error

Page	Line(s)	Change		Reason
		From	To	
187	20	the firewall, they	the firewalls, they	Transcription Error
187	22	saw anything normal	saw anything abnormal	Transcription Error

I declare under penalty of perjury that the foregoing is true and correct.

Date: 11-12-24

Signed: 